



## Bridgelux SMD: Product Selection Guide PSG-050 Rev. B

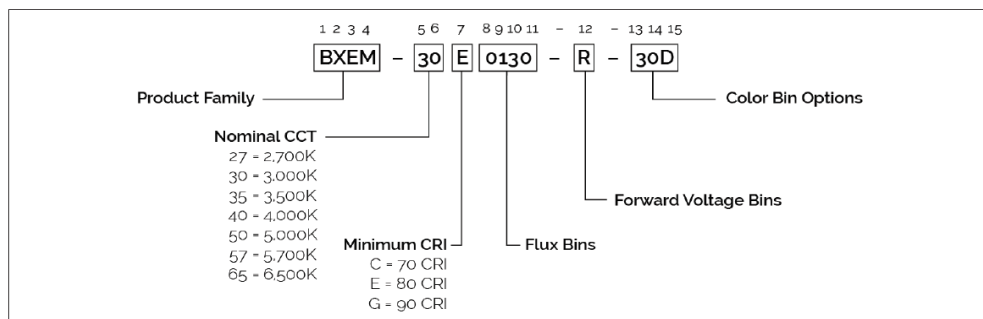
Refer to relevant product data sheets for specific information on application and performance.

Product Data sheets available at [Bridgelux.com](http://Bridgelux.com) or from Bridgelux Sales Representatives.

The tables below include the base BXEM and BXEN part number which defines color (CCT), color rendering (CRI) and flux characteristics.

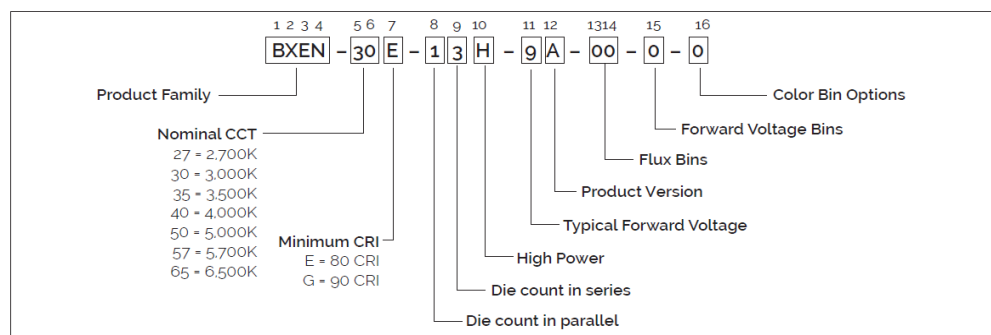
### Product Nomenclature – BXEM (3030 1W 6V) Series Part Numbers

The part number designation for Bridgelux SMD 3030 is explained as follows:



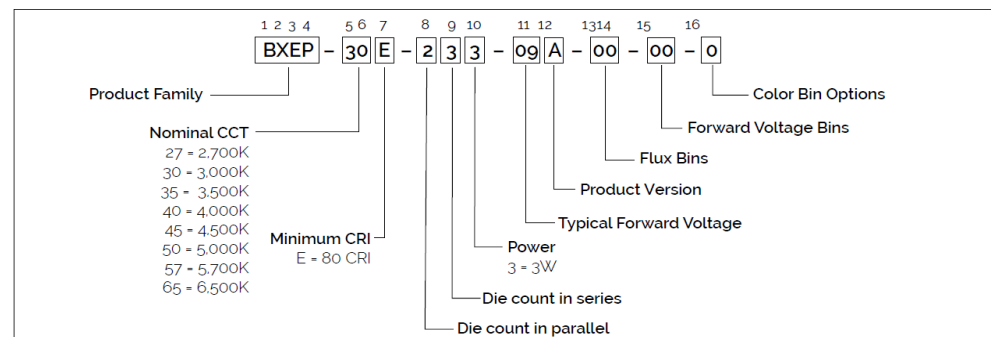
### Product Nomenclature – BXEN (2835) Series Part Numbers (SMD3030 3V same structure)

The part number designation for Bridgelux SMD 2835 is explained as follows:



### Product Nomenclature – BXEP (5050) Series Part Numbers

The part number designation for Bridgelux SMD 5050 is explained as follows:



Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 6V	BXEM-27C0000-0-000	2700K	70	30	0.2x	28	5.5	0.2	171	-	24	5.3	0.2	153	DS51
				60	0.4x	55	5.7	0.3	159	-	47	5.5	0.3	143	
				100	0.7x	87	6.0	0.6	145	-	74	5.8	0.6	128	
				150	1x	123	6.25	0.9	131	12	102	6.0	0.9	113	
				200	1.3x	156	6.5	1.3	119	-	124	6.3	1.3	98	
				240	1.6x	179	6.7	1.6	111	-	138	6.5	1.6	88	
3030 1W 6V	BXEM-27E0000-0-000	2700K	80	30	0.2x	27	5.5	0.2	163	-	24	5.3	0.2	149	DS51
				60	0.4x	52	5.7	0.3	152	-	46	5.5	0.3	140	
				100	0.7x	82	6.0	0.6	138	-	72	5.8	0.6	125	
				150	1x	117	6.25	0.9	125	12	99	6.0	0.9	111	
				200	1.3x	148	6.5	1.3	114	-	121	6.3	1.3	96	
				240	1.6x	170	6.7	1.6	106	-	134	6.5	1.6	86	
3030 1W 6V	BXEM-27G0000-0-000	2700K	90	30	0.2x	22	5.5	0.2	136	-	20	5.3	0.2	125	DS51
				60	0.4x	43	5.7	0.3	127	-	39	5.5	0.3	117	
				100	0.7x	69	6.0	0.6	116	-	60	5.8	0.6	105	
				150	1x	98	6.25	0.9	105	12	83	6.0	0.9	93	
				200	1.3x	124	6.5	1.3	95	-	101	6.3	1.3	80	
				240	1.6x	142	6.7	1.6	88	-	112	6.5	1.6	72	
3030 1W 6V	BXEM-30C0000-0-000	3000K	70	30	0.2x	29	5.5	0.2	175	-	25	5.3	0.2	157	DS51
				60	0.4x	56	5.7	0.3	163	-	49	5.5	0.3	147	
				100	0.7x	89	6.0	0.6	149	-	76	5.8	0.6	131	
				150	1x	126	6.25	0.9	134	12	105	6.0	0.9	116	
				200	1.3x	159	6.5	1.3	122	-	127	6.3	1.3	100	
				240	1.6x	183	6.7	1.6	114	-	141	6.5	1.6	90	
3030 1W 6V	BXEM-30E0000-0-000	3000K	80	30	0.2x	28	5.5	0.2	171	-	25	5.3	0.2	157	DS51
				60	0.4x	55	5.7	0.3	159	-	49	5.5	0.3	147	
				100	0.7x	87	6.0	0.6	145	-	76	5.8	0.6	131	
				150	1x	123	6.25	0.9	131	12	105	6.0	0.9	116	
				200	1.3x	156	6.5	1.3	119	-	127	6.3	1.3	100	
				240	1.6x	179	6.7	1.6	111	-	141	6.5	1.6	90	
3030 1W 6V	BXEM-30G0000-0-000	3000K	90	30	0.2x	23	5.5	0.2	143	-	21	5.3	0.2	131	DS51
				60	0.4x	46	5.7	0.3	134	-	41	5.5	0.3	123	
				100	0.7x	73	6.0	0.6	122	-	64	5.8	0.6	110	
				150	1x	103	6.25	0.9	110	12	88	6.0	0.9	97	
				200	1.3x	130	6.5	1.3	100	-	107	6.3	1.3	84	
				240	1.6x	150	6.7	1.6	93	-	118	6.5	1.6	75	
3030 1W 6V	BXEM-35C0000-0-000	3500K	70	30	0.2x	29	5.5	0.2	179	-	26	5.3	0.2	163	DS51
				60	0.4x	57	5.7	0.3	167	-	50	5.5	0.3	152	
				100	0.7x	91	6.0	0.6	153	-	79	5.8	0.6	136	
				150	1x	129	6.25	0.9	138	12	108	6.0	0.9	120	
				200	1.3x	163	6.5	1.3	125	-	132	6.3	1.3	104	
				240	1.6x	187	6.7	1.6	116	-	146	6.5	1.6	93	
3030 1W 6V	BXEM-35E0000-0-000	3500K	80	30	0.2x	28	5.5	0.2	174	-	25	5.3	0.2	158	DS51
				60	0.4x	55	5.7	0.3	162	-	49	5.5	0.3	147	
				100	0.7x	88	6.0	0.6	148	-	76	5.8	0.6	132	
				150	1x	125	6.25	0.9	133	12	105	6.0	0.9	117	
				200	1.3x	158	6.5	1.3	121	-	128	6.3	1.3	101	
				240	1.6x	182	6.7	1.6	113	-	142	6.5	1.6	90	
3030 1W 6V	BXEM-35G0000-0-000	3500K	90	30	0.2x	24	5.5	0.2	146	-	21	5.3	0.2	136	DS51
				60	0.4x	47	5.7	0.3	136	-	42	5.5	0.3	127	
				100	0.7x	74	6.0	0.6	124	-	66	5.8	0.6	113	
				150	1x	105	6.25	0.9	112	12	90	6.0	0.9	100	
				200	1.3x	133	6.5	1.3	102	-	110	6.3	1.3	87	
				240	1.6x	153	6.7	1.6	95	-	122	6.5	1.6	78	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 6V	BXEM-40C0000-0-000	4000K	70	30	0.2x	30	5.5	0.2	185	-	27	5.3	0.2	168	DS51
				60	0.4x	59	5.7	0.3	172	-	52	5.5	0.3	157	
				100	0.7x	94	6.0	0.6	157	-	81	5.8	0.6	140	
				150	1x	133	6.25	0.9	142	12	112	6.0	0.9	124	
				200	1.3x	168	6.5	1.3	129	-	136	6.3	1.3	107	
				240	1.6x	193	6.7	1.6	120	-	151	6.5	1.6	96	
3030 1W 6V	BXEM-40E0000-0-000	4000K	80	30	0.2x	29	5.5	0.2	176	-	25	5.3	0.2	160	DS51
				60	0.4x	56	5.7	0.3	165	-	50	5.5	0.3	150	
				100	0.7x	90	6.0	0.6	150	-	77	5.8	0.6	134	
				150	1x	127	6.25	0.9	135	12	107	6.0	0.9	119	
				200	1.3x	161	6.5	1.3	123	-	130	6.3	1.3	103	
				240	1.6x	185	6.7	1.6	115	-	144	6.5	1.6	92	
3030 1W 6V	BXEM-40G0000-0-000	4000K	90	30	0.2x	25	5.5	0.2	150	-	22	5.3	0.2	139	DS51
				60	0.4x	48	5.7	0.3	140	-	43	5.5	0.3	130	
				100	0.7x	76	6.0	0.6	128	-	67	5.8	0.6	117	
				150	1x	108	6.25	0.9	115	12	93	6.0	0.9	103	
				200	1.3x	137	6.5	1.3	105	-	113	6.3	1.3	89	
				240	1.6x	157	6.7	1.6	97	-	125	6.5	1.6	80	
3030 1W 6V	BXEM-50C0000-0-000	5000K	70	30	0.2x	30	5.5	0.2	185	-	27	5.3	0.2	170	DS51
				60	0.4x	59	5.7	0.3	172	-	53	5.5	0.3	159	
				100	0.7x	94	6.0	0.6	157	-	82	5.8	0.6	142	
				150	1x	133	6.25	0.9	142	12	113	6.0	0.9	126	
				200	1.3x	168	6.5	1.3	129	-	138	6.3	1.3	109	
				240	1.6x	193	6.7	1.6	120	-	152	6.5	1.6	97	
3030 1W 6V	BXEM-50E0000-0-000	5000K	80	30	0.2x	29	5.5	0.2	176	-	25	5.3	0.2	160	DS51
				60	0.4x	56	5.7	0.3	165	-	50	5.5	0.3	150	
				100	0.7x	90	6.0	0.6	150	-	77	5.8	0.6	134	
				150	1x	127	6.25	0.9	135	12	107	6.0	0.9	119	
				200	1.3x	161	6.5	1.3	123	-	130	6.3	1.3	103	
				240	1.6x	185	6.7	1.6	115	-	144	6.5	1.6	92	
3030 1W 6V	BXEM-50G0000-0-000	5000K	90	30	0.2x	25	5.5	0.2	150	-	22	5.3	0.2	138	DS51
				60	0.4x	48	5.7	0.3	140	-	43	5.5	0.3	129	
				100	0.7x	76	6.0	0.6	128	-	67	5.8	0.6	115	
				150	1x	108	6.25	0.9	115	12	92	6.0	0.9	102	
				200	1.3x	137	6.5	1.3	105	-	112	6.3	1.3	88	
				240	1.6x	157	6.7	1.6	97	-	124	6.5	1.6	79	
3030 1W 6V	BXEM-57C0000-0-000	5700K	70	30	0.2x	30	5.5	0.2	185	-	27	5.3	0.2	170	DS51
				60	0.4x	59	5.7	0.3	172	-	53	5.5	0.3	159	
				100	0.7x	94	6.0	0.6	157	-	82	5.8	0.6	142	
				150	1x	133	6.25	0.9	142	12	113	6.0	0.9	126	
				200	1.3x	168	6.5	1.3	129	-	138	6.3	1.3	109	
				240	1.6x	193	6.7	1.6	120	-	152	6.5	1.6	97	
3030 1W 6V	BXEM-57E0000-0-000	5700K	80	30	0.2x	29	5.5	0.2	176	-	25	5.3	0.2	160	DS51
				60	0.4x	56	5.7	0.3	165	-	50	5.5	0.3	150	
				100	0.7x	90	6.0	0.6	150	-	77	5.8	0.6	134	
				150	1x	127	6.25	0.9	135	12	107	6.0	0.9	119	
				200	1.3x	161	6.5	1.3	123	-	130	6.3	1.3	103	
				240	1.6x	185	6.7	1.6	115	-	144	6.5	1.6	92	
3030 1W 6V	BXEM-57G0000-0-000	5700K	90	30	0.2x	25	5.5	0.2	150	-	22	5.3	0.2	138	DS51
				60	0.4x	48	5.7	0.3	140	-	43	5.5	0.3	129	
				100	0.7x	76	6.0	0.6	128	-	67	5.8	0.6	115	
				150	1x	108	6.25	0.9	115	12	92	6.0	0.9	102	
				200	1.3x	137	6.5	1.3	105	-	112	6.3	1.3	88	
				240	1.6x	157	6.7	1.6	97	-	124	6.5	1.6	79	

		Data Sheet													
Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 6V	BXEM-65C0000-0-000	6500K	70	30	0.2x	30	5.5	0.2	185	-	27	5.3	0.2	170	DS51
				60	0.4x	59	5.7	0.3	172	-	53	5.5	0.3	159	
				100	0.7x	94	6.0	0.6	157	-	82	5.8	0.6	142	
				150	1x	133	6.25	0.9	142	12	113	6.0	0.9	126	
				200	1.3x	168	6.5	1.3	129	-	138	6.3	1.3	109	
				240	1.6x	193	6.7	1.6	120	-	152	6.5	1.6	97	
3030 1W 6V	BXEM-65E0000-0-000	6500K	80	30	0.2x	29	5.5	0.2	175	-	25	5.3	0.2	157	DS51
				60	0.4x	56	5.7	0.3	163	-	49	5.5	0.3	147	
				100	0.7x	89	6.0	0.6	149	-	76	5.8	0.6	131	
				150	1x	126	6.25	0.9	134	12	105	6.0	0.9	116	
				200	1.3x	159	6.5	1.3	122	-	127	6.3	1.3	100	
				240	1.6x	183	6.7	1.6	114	-	141	6.5	1.6	90	
3030 1W 6V	BXEM-65G0000-0-000	6500K	90	30	0.2x	25	5.5	0.2	150	-	22	5.3	0.2	138	DS51
				60	0.4x	48	5.7	0.3	140	-	43	5.5	0.3	129	
				100	0.7x	76	6.0	0.6	128	-	67	5.8	0.6	115	
				150	1x	108	6.25	0.9	115	12	92	6.0	0.9	102	
				200	1.3x	137	6.5	1.3	105	-	112	6.3	1.3	88	
				240	1.6x	157	6.7	1.6	97	-	124	6.5	1.6	79	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 3V	BXEM-27C-21H-3A-00-0-0	2700K	70	60	0.2x	28	2.8	0.2	168	-	24	2.6	0.2	155	DS66
				120	0.4x	54	2.9	0.3	156	-	47	2.7	0.3	145	
				200	0.7x	86	3.1	0.6	142	-	74	2.9	0.6	129	
				300	1x	123	3.2	1.0	128	12	102	3.0	0.9	113	
				400	1.3x	153	3.4	1.3	114	-	124	3.2	1.3	98	
3030 1W 3V	BXEM-27E-21H-3A-00-0-0	2700K	80	60	0.2x	27	2.8	0.2	160	-	24	2.6	0.2	151	DS66
				120	0.4x	52	2.9	0.3	148	-	46	2.7	0.3	141	
				200	0.7x	82	3.1	0.6	135	-	72	2.9	0.6	126	
				300	1x	117	3.2	1.0	122	12	99	3.0	0.9	110	
				400	1.3x	145	3.4	1.3	108	-	121	3.2	1.3	95	
3030 1W 3V	BXEM-27G-21H-3A-00-0-0	2700K	90	60	0.2x	22	2.8	0.2	134	-	20	2.6	0.2	126	DS66
				120	0.4x	43	2.9	0.3	124	-	39	2.7	0.3	118	
				200	0.7x	69	3.1	0.6	113	-	60	2.9	0.6	105	
				300	1x	98	3.2	1.0	102	12	83	3.0	0.9	92	
				400	1.3x	122	3.4	1.3	91	-	101	3.2	1.3	80	
3030 1W 3V	BXEM-30C-21H-3A-00-0-0	3000K	70	60	0.2x	29	2.8	0.2	172	-	25	2.6	0.2	158	DS66
				120	0.4x	56	2.9	0.3	159	-	49	2.7	0.3	148	
				200	0.7x	89	3.1	0.6	145	-	76	2.9	0.6	132	
				300	1x	126	3.2	1.0	131	12	105	3.0	0.9	115	
				400	1.6x	157	3.4	1.3	117	-	141	3.2	1.3	111	
3030 1W 3V	BXEM-30E-21H-3A-00-0-0	3000K	80	60	0.2x	28	2.8	0.2	168	-	25	2.6	0.2	158	DS66
				120	0.4x	54	2.9	0.3	156	-	49	2.7	0.3	148	
				200	0.7x	86	3.1	0.6	142	-	76	2.9	0.6	132	
				300	1x	123	3.2	1.0	128	12	105	3.0	0.9	115	
				400	1.3x	153	3.4	1.3	114	-	127	3.2	1.3	100	
3030 1W 3V	BXEM-30G-21H-3A-00-0-0	3000K	90	60	0.2x	24	2.8	0.2	141	-	21	2.6	0.2	133	DS66
				120	0.4x	46	2.9	0.3	130	-	41	2.7	0.3	124	
				200	0.7x	72	3.1	0.6	119	-	64	2.9	0.6	111	
				300	1x	103	3.2	1.0	107	12	88	3.0	0.9	97	
				400	1.3x	128	3.4	1.3	95	-	107	3.2	1.3	84	
3030 1W 3V	BXEM-35C-21H-3A-00-0-0	3500K	70	60	0.2x	30	2.8	0.2	177	-	26	2.6	0.2	164	DS66
				120	0.4x	57	2.9	0.3	163	-	50	2.7	0.3	154	
				200	0.7x	91	3.1	0.6	148	-	79	2.9	0.6	137	
				300	1x	129	3.2	1.0	134	12	108	3.0	0.9	120	
				400	1.3x	160	3.4	1.3	120	-	132	3.2	1.3	104	
3030 1W 3V	BXEM-35E-21H-3A-00-0-0	3500K	80	60	0.2x	29	2.8	0.2	171	-	25	2.6	0.2	159	DS66
				120	0.4x	55	2.9	0.3	158	-	49	2.7	0.3	149	
				200	0.7x	88	3.1	0.6	144	-	76	2.9	0.6	133	
				300	1x	125	3.2	1.0	130	12	105	3.0	0.9	116	
				400	1.3x	155	3.4	1.3	116	-	128	3.2	1.3	101	
3030 1W 3V	BXEM-35G-21H-3A-00-0-0	3500K	90	60	0.2x	24	2.8	0.2	144	-	21	2.6	0.2	137	DS66
				120	0.4x	46	2.9	0.3	133	-	42	2.7	0.3	128	
				200	0.7x	74	3.1	0.6	121	-	66	2.9	0.6	114	
				300	1x	105	3.2	1.0	109	12	90	3.0	0.9	100	
				400	1.3x	130	3.4	1.3	97	-	110	3.2	1.3	87	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 3V	BXEM-40C-21H-3A-00-0-0	4000K	70	60	0.2x	31	2.8	0.2	182	-	26	2.6	0.2	168	DS66
				120	0.4x	59	2.9	0.3	168	-	52	2.7	0.3	157	
				200	0.7x	93	3.1	0.6	153	-	81	2.9	0.6	142	
				300	1x	133	3.2	1.0	139	12	112	3.0	0.9	123	
				400	1.3x	165	3.4	1.3	123	-	137	3.2	1.3	108	
3030 1W 3V	BXEM-40E-21H-3A-00-0-0	4000K	80	60	0.2x	29	2.8	0.2	174	-	25	2.6	0.2	160	DS66
				120	0.4x	56	2.9	0.3	161	-	49	2.7	0.3	150	
				200	0.7x	89	3.1	0.6	146	-	78	2.9	0.6	135	
				300	1x	127	3.2	1.0	132	12	107	3.0	0.9	118	
				400	1.3x	158	3.4	1.3	118	-	131	3.2	1.3	103	
3030 1W 3V	BXEM-40G-21H-3A-00-0-0	4000K	90	60	0.2x	25	2.8	0.2	148	-	22	2.6	0.2	140	DS66
				120	0.4x	48	2.9	0.3	137	-	43	2.7	0.3	131	
				200	0.7x	76	3.1	0.6	124	-	68	2.9	0.6	118	
				300	1x	108	3.2	1.0	113	12	93	3.0	0.9	103	
				400	1.3x	134	3.4	1.3	100	-	114	3.2	1.3	90	
3030 1W 3V	BXEM-50C-21H-3A-00-0-0	5000K	70	60	0.2x	31	2.8	0.2	182	-	27	2.6	0.2	170	DS66
				120	0.4x	59	2.9	0.3	168	-	52	2.7	0.3	159	
				200	0.7x	93	3.1	0.6	153	-	82	2.9	0.6	143	
				300	1x	133	3.2	1.0	139	12	113	3.0	0.9	125	
				400	1.3x	165	3.4	1.3	123	-	139	3.2	1.3	109	
3030 1W 3V	BXEM-50E-21H-3A-00-0-0	5000K	80	60	0.2x	29	2.8	0.2	174	-	25	2.6	0.2	160	DS66
				120	0.4x	56	2.9	0.3	161	-	49	2.7	0.3	150	
				200	0.7x	89	3.1	0.6	146	-	78	2.9	0.6	135	
				300	1x	127	3.2	1.0	132	12	107	3.0	0.9	118	
				400	1.3x	158	3.4	1.3	118	-	131	3.2	1.3	103	
3030 1W 3V	BXEM-50G-21H-3A-00-0-0	5000K	90	60	0.2x	25	2.8	0.2	148	-	22	2.6	0.2	138	DS66
				120	0.4x	48	2.9	0.3	137	-	42	2.7	0.3	129	
				200	0.7x	76	3.1	0.6	124	-	67	2.9	0.6	116	
				300	1x	108	3.2	1.0	113	12	92	3.0	0.9	101	
				400	1.3x	134	3.4	1.3	100	-	113	3.2	1.3	89	
3030 1W 3V	BXEM-57C-21H-3A-00-0-0	5700K	70	60	0.2x	31	2.8	0.2	182	-	27	2.6	0.2	170	DS66
				120	0.4x	59	2.9	0.3	168	-	52	2.7	0.3	159	
				200	0.7x	93	3.1	0.6	153	-	82	2.9	0.6	143	
				300	1x	133	3.2	1.0	139	12	113	3.0	0.9	125	
				400	1.3x	165	3.4	1.3	123	-	139	3.2	1.3	109	
3030 1W 3V	BXEM-57E-21H-3A-00-0-0	5700K	80	60	0.2x	29	2.8	0.2	174	-	25	2.6	0.2	160	DS66
				120	0.4x	56	2.9	0.3	161	-	49	2.7	0.3	150	
				200	0.7x	89	3.1	0.6	146	-	78	2.9	0.6	135	
				300	1x	127	3.2	1.0	132	12	107	3.0	0.9	118	
				400	1.3x	158	3.4	1.3	118	-	131	3.2	1.3	103	
3030 1W 3V	BXEM-57G-21H-3A-00-0-0	5700K	90	60	0.2x	25	2.8	0.2	148	-	22	2.6	0.2	138	DS66
				120	0.4x	48	2.9	0.3	137	-	42	2.7	0.3	129	
				200	0.7x	76	3.1	0.6	124	-	67	2.9	0.6	116	
				300	1x	108	3.2	1.0	113	12	92	3.0	0.9	101	
				400	1.3x	134	3.4	1.3	100	-	113	3.2	1.3	89	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
3030 1W 3V	BXEM-65C-21H-3A-00-0-0	6500K	70	60	0.2x	31	2.8	0.2	182	-	27	2.6	0.2	170	DS66
				120	0.4x	59	2.9	0.3	168	-	52	2.7	0.3	159	
				200	0.7x	93	3.1	0.6	153	-	82	2.9	0.6	143	
				300	1x	133	3.2	1.0	139	12	113	3.0	0.9	125	
				400	1.3x	165	3.4	1.3	123	-	139	3.2	1.3	109	
3030 1W 3V	BXEM-65E-21H-3A-00-0-0	6500K	80	60	0.2x	29	2.8	0.2	172	-	25	2.6	0.2	157	DS66
				120	0.4x	56	2.9	0.3	159	-	48	2.7	0.3	147	
				200	0.7x	89	3.1	0.6	145	-	76	2.9	0.6	133	
				300	1x	126	3.2	1.0	131	12	105	3.0	0.9	115	
				400	1.3x	157	3.4	1.3	117	-	128	3.2	1.3	101	
3030 1W 3V	BXEM-65G-21H-3A-00-0-0	6500K	90	60	0.2x	25	2.8	0.2	148	-	22	2.6	0.2	138	DS66
				120	0.4x	48	2.9	0.3	137	-	42	2.7	0.3	129	
				200	0.7x	76	3.1	0.6	124	-	67	2.9	0.6	116	
				300	1x	108	3.2	1.0	113	12	92	3.0	0.9	101	
				400	1.3x	134	3.4	1.3	100	-	113	3.2	1.3	89	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 0.2W 3V	BXEN-27E-11L-3A-00-0-0	2700K	80	20	0.3x	9	2.8	0.1	158	-	8	2.7	0.1	147	DS55
				30	0.5x	13	2.9	0.1	150	-	11	2.8	0.1	138	
				40	0.7x	17	2.9	0.1	143	-	15	2.8	0.1	131	
				60	1x	24	3.1	0.2	129	29	21	3.0	0.2	118	
				80	1.3x	31	3.2	0.3	122	-	27	3.1	0.2	107	
2835 0.2W 3V	BXEN-30E-11L-3A-00-0-0	3000K	80	20	0.3x	9	2.8	0.1	165	-	8	2.7	0.1	153	DS55
				30	0.5x	13	2.9	0.1	156	-	12	2.8	0.1	144	
				40	0.7x	18	2.9	0.1	149	-	15	2.8	0.1	136	
				60	1x	25	3.1	0.2	134	29	22	3.0	0.2	125	
				80	1.3x	33	3.2	0.3	127	-	28	3.1	0.2	111	
2835 0.2W 3V	BXEN-35E-11L-3A-00-0-0	3500K	80	20	0.3x	9	2.8	0.1	165	-	8	2.7	0.1	153	DS55
				30	0.5x	13	2.9	0.1	156	-	12	2.8	0.1	144	
				40	0.7x	18	2.9	0.1	149	-	15	2.8	0.1	136	
				60	1x	25	3.1	0.2	134	29	22	3.0	0.2	125	
				80	1.3x	33	3.2	0.3	127	-	28	3.1	0.2	111	
2835 0.2W 3V	BXEN-40E-11L-3A-00-0-0	4000K	80	20	0.3x	10	2.8	0.1	171	-	8	2.7	0.1	159	DS55
				30	0.5x	14	2.9	0.1	163	-	12	2.8	0.1	150	
				40	0.7x	18	2.9	0.1	155	-	16	2.8	0.1	142	
				60	1x	26	3.1	0.2	140	29	23	3.0	0.2	129	
				80	1.3x	34	3.2	0.3	132	-	29	3.1	0.2	116	
2835 0.2W 3V	BXEN-50E-11L-3A-00-0-0	5000K	80	20	0.3x	10	2.8	0.1	171	-	8	2.7	0.1	159	DS55
				30	0.5x	14	2.9	0.1	163	-	12	2.8	0.1	150	
				40	0.7x	18	2.9	0.1	155	-	16	2.8	0.1	142	
				60	1x	26	3.1	0.2	140	29	23	3.0	0.2	129	
				80	1.3x	34	3.2	0.3	132	-	29	3.1	0.2	116	
2835 0.2W 3V	BXEN-57E-11L-3A-00-0-0	5700K	80	20	0.3x	10	2.8	0.1	171	-	8	2.7	0.1	159	DS55
				30	0.5x	14	2.9	0.1	163	-	12	2.8	0.1	150	
				40	0.7x	18	2.9	0.1	155	-	16	2.8	0.1	142	
				60	1x	26	3.1	0.2	140	29	23	3.0	0.2	129	
				80	1.3x	34	3.2	0.3	132	-	29	3.1	0.2	116	
2835 0.2W 3V	BXEN-65E-11L-3A-00-0-0	6500K	80	20	0.3x	9	2.8	0.1	165	-	8	2.7	0.1	153	DS55
				30	0.5x	13	2.9	0.1	156	-	12	2.8	0.1	144	
				40	0.7x	18	2.9	0.1	149	-	15	2.8	0.1	136	
				60	1x	25	3.1	0.2	134	29	22	3.0	0.2	124	
				80	1.3x	33	3.2	0.3	127	-	28	3.1	0.2	111	



Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 0.2W 3V Gen2	BXEN-27E-21L-3B-00-0-0	2700K	80	20	0.3x	9	2.6	0.1	175	-	9	2.6	0.1	166	DS65
				30	0.5x	14	2.7	0.1	173	-	13	2.6	0.1	165	
				40	0.7x	18	2.7	0.1	171	-	17	2.6	0.1	162	
				60	1x	27	2.8	0.2	165	8	25	2.7	0.2	155	
				80	1.3x	36	2.8	0.2	160	-	33	2.7	0.2	153	
2835 0.2W 3V Gen2	BXEN-30E-21L-3B-00-0-0	3000K	80	20	0.3x	10	2.6	0.1	190	-	9	2.6	0.1	180	DS65
				30	0.5x	15	2.7	0.1	187	-	14	2.6	0.1	178	
				40	0.7x	20	2.7	0.1	184	-	18	2.6	0.1	176	
				60	1x	29	2.8	0.2	178	8	27	2.7	0.2	168	
				80	1.3x	39	2.8	0.2	173	-	36	2.7	0.2	165	
2835 0.2W 3V Gen2	BXEN-35E-21L-3B-00-0-0	3500K	80	20	0.3x	10	2.6	0.1	190	-	9	2.6	0.1	180	DS65
				30	0.5x	15	2.7	0.1	187	-	14	2.6	0.1	178	
				40	0.7x	20	2.7	0.1	184	-	18	2.6	0.1	176	
				60	1x	29	2.8	0.2	178	8	27	2.7	0.2	168	
				80	1.3x	39	2.8	0.2	173	-	36	2.7	0.2	165	
2835 0.2W 3V Gen2	BXEN-40E-21L-3B-00-0-0	4000K	80	20	0.3x	10	2.6	0.1	197	-	10	2.6	0.1	186	DS65
				30	0.5x	15	2.7	0.1	194	-	14	2.6	0.1	185	
				40	0.7x	21	2.7	0.1	191	-	19	2.6	0.1	182	
				60	1x	31	2.8	0.2	185	8	28	2.7	0.2	174	
				80	1.3x	40	2.8	0.2	180	-	38	2.7	0.2	171	
2835 0.2W 3V Gen2	BXEN-50E-21L-3B-00-0-0	5000K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS65
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	169	
2835 0.2W 3V Gen2	BXEN-57E-21L-3B-00-0-0	5700K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS65
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	169	
2835 0.2W 3V Gen2	BXEN-65E-21L-3B-00-0-0	6500K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS65
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	172	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 0.2W 3V Gen2	BXEN-27E-11L-3C-00-0-0	2700K	80	20	0.3x	9	2.6	0.1	175	-	9	2.6	0.1	166	DS74
				30	0.5x	14	2.7	0.1	173	-	13	2.6	0.1	165	
				40	0.7x	18	2.7	0.1	171	-	17	2.6	0.1	162	
				60	1x	27	2.8	0.2	165	8	25	2.7	0.2	155	
				80	1.3x	36	2.8	0.2	160	-	33	2.7	0.2	153	
2835 0.2W 3V Gen2	BXEN-30E-11L-3C-00-0-0	3000K	80	20	0.3x	10	2.6	0.1	190	-	9	2.6	0.1	180	DS74
				30	0.5x	15	2.7	0.1	187	-	14	2.6	0.1	178	
				40	0.7x	20	2.7	0.1	184	-	18	2.6	0.1	176	
				60	1x	29	2.8	0.2	178	8	27	2.7	0.2	168	
				80	1.3x	39	2.8	0.2	173	-	36	2.7	0.2	165	
2835 0.2W 3V Gen2	BXEN-35E-11L-3C-00-0-0	3500K	80	20	0.3x	10	2.6	0.1	190	-	9	2.6	0.1	180	DS74
				30	0.5x	15	2.7	0.1	187	-	14	2.6	0.1	178	
				40	0.7x	20	2.7	0.1	184	-	18	2.6	0.1	176	
				60	1x	29	2.8	0.2	178	8	27	2.7	0.2	168	
				80	1.3x	39	2.8	0.2	173	-	36	2.7	0.2	165	
2835 0.2W 3V Gen2	BXEN-40E-11L-3C-00-0-0	4000K	80	20	0.3x	10	2.6	0.1	197	-	10	2.6	0.1	186	DS74
				30	0.5x	15	2.7	0.1	194	-	14	2.6	0.1	185	
				40	0.7x	21	2.7	0.1	191	-	19	2.6	0.1	182	
				60	1x	31	2.8	0.2	185	8	28	2.7	0.2	174	
				80	1.3x	40	2.8	0.2	180	-	38	2.7	0.2	171	
2835 0.2W 3V Gen2	BXEN-50E-11L-3C-00-0-0	5000K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS74
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	169	
2835 0.2W 3V Gen2	BXEN-57E-11L-3C-00-0-0	5700K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS74
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	169	
2835 0.2W 3V Gen2	BXEN-65E-11L-3C-00-0-0	6500K	80	20	0.3x	10	2.6	0.1	194	-	9	2.6	0.1	184	DS74
				30	0.5x	15	2.7	0.1	192	-	14	2.6	0.1	182	
				40	0.7x	20	2.7	0.1	189	-	19	2.6	0.1	180	
				60	1x	30	2.8	0.2	182	8	28	2.7	0.2	172	
				80	1.3x	40	2.8	0.2	178	-	37	2.7	0.2	172	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 0.5W 3V	BXEN-27E-11M-3A-00-0-0	2700K	80	30	0.2x	13	2.6	0.1	170	-	12	2.5	0.1	159	DS56
				60	0.4x	26	2.8	0.2	154	-	23	2.7	0.2	143	
				100	0.7x	40	2.9	0.3	138	-	36	2.8	0.3	127	
				150	1x	57	3.1	0.5	123	20	50	3.0	0.4	111	
				180	1.2x	66	3.2	0.6	114	-	58	3.1	0.6	103	
2835 0.5W 3V	BXEN-30E-11M-3A-00-0-0	3000K	80	30	0.2x	14	2.6	0.1	179	-	13	2.5	0.1	168	DS56
				60	0.4x	27	2.8	0.2	162	-	24	2.7	0.2	150	
				100	0.7x	43	2.9	0.3	145	-	38	2.8	0.3	133	
				150	1x	60	3.1	0.5	129	20	53	3.0	0.4	118	
				180	1.2x	69	3.2	0.6	120	-	61	3.1	0.6	108	
2835 0.5W 3V	BXEN-35E-11M-3A-00-0-0	3500K	80	30	0.2x	14	2.6	0.1	179	-	13	2.5	0.1	168	DS56
				60	0.4x	27	2.8	0.2	162	-	24	2.7	0.2	150	
				100	0.7x	43	2.9	0.3	145	-	38	2.8	0.3	133	
				150	1x	60	3.1	0.5	129	20	53	3.0	0.4	118	
				180	1.2x	69	3.2	0.6	120	-	61	3.1	0.6	108	
2835 0.5W 3V	BXEN-40E-11M-3A-00-0-0	4000K	80	30	0.2x	15	2.6	0.1	191	-	13	2.5	0.1	179	DS56
				60	0.4x	29	2.8	0.2	173	-	26	2.7	0.2	160	
				100	0.7x	45	2.9	0.3	154	-	40	2.8	0.3	142	
				150	1x	64	3.1	0.5	138	20	56	3.0	0.4	125	
				180	1.2x	74	3.2	0.6	127	-	65	3.1	0.6	115	
2835 0.5W 3V	BXEN-50E-11M-3A-00-0-0	5000K	80	30	0.2x	15	2.6	0.1	191	-	13	2.5	0.1	179	DS56
				60	0.4x	29	2.8	0.2	173	-	26	2.7	0.2	160	
				100	0.7x	45	2.9	0.3	154	-	40	2.8	0.3	142	
				150	1x	64	3.1	0.5	138	20	56	3.0	0.4	125	
				180	1.2x	74	3.2	0.6	127	-	65	3.1	0.6	115	
2835 0.5W 3V	BXEN-57E-11M-3A-00-0-0	5700K	80	30	0.2x	15	2.6	0.1	191	-	13	2.5	0.1	179	DS56
				60	0.4x	29	2.8	0.2	173	-	26	2.7	0.2	160	
				100	0.7x	45	2.9	0.3	154	-	40	2.8	0.3	142	
				150	1x	64	3.1	0.5	138	20	56	3.0	0.4	125	
				180	1.2x	74	3.2	0.6	127	-	65	3.1	0.6	115	
2835 0.5W 3V	BXEN-65E-11M-3A-00-0-0	6500K	80	30	0.2x	15	2.6	0.1	188	-	13	2.5	0.1	176	DS56
				60	0.4x	28	2.8	0.2	170	-	25	2.7	0.2	158	
				100	0.7x	45	2.9	0.3	152	-	40	2.8	0.3	140	
				150	1x	63	3.1	0.5	135	20	54	3.0	0.4	121	
				180	1.2x	73	3.2	0.6	125	-	64	3.1	0.6	114	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 1W 9V Gen2	BXEN-27E-13H-9B-00-0-0	2700K	80	30	0.3x	41	8.2	0.2	165	-	36	7.9	0.2	150	DS58
				60	0.6x	75	8.8	0.5	142	-	65	8.5	0.5	128	
				80	0.8x	96	9.2	0.7	131	-	82	8.9	0.7	116	
				100	1x	115	9.5	1.0	121	10	101	9.2	0.9	110	
				120	1.2x	132	9.8	1.2	113	-	111	9.5	1.1	97	
2835 1W 9V Gen2	BXEN-27G-13H-9B-00-0-0	2700K	90	30	0.3x	35	8.2	0.2	144	-	31	7.9	0.2	131	DS58
				60	0.6x	65	8.8	0.5	124	-	57	8.5	0.5	111	
				80	0.8x	83	9.2	0.7	114	-	71	8.9	0.7	101	
				100	1x	100	9.5	1.0	105	10	88	9.2	0.9	96	
				120	1.2x	115	9.8	1.2	98	-	96	9.5	1.1	84	
2835 1W 9V Gen2	BXEN-30E-13H-9B-00-0-0	3000K	80	30	0.3x	42	8.2	0.2	172	-	37	7.9	0.2	157	DS58
				60	0.6x	79	8.8	0.5	149	-	68	8.5	0.5	133	
				80	0.8x	100	9.2	0.7	136	-	86	8.9	0.7	121	
				100	1x	120	9.5	1.0	126	10	106	9.2	0.9	115	
				120	1.2x	138	9.8	1.2	117	-	116	9.5	1.1	101	
2835 1W 9V Gen2	BXEN-30G-13H-9B-00-0-0	3000K	90	30	0.3x	35	8.2	0.2	144	-	31	7.9	0.2	131	DS58
				60	0.6x	65	8.8	0.5	124	-	57	8.5	0.5	111	
				80	0.8x	83	9.2	0.7	114	-	71	8.9	0.7	101	
				100	1x	100	9.5	1.0	105	10	88	9.2	0.9	96	
				120	1.2x	115	9.8	1.2	98	-	96	9.5	1.1	84	
2835 1W 9V Gen2	BXEN-35E-13H-9B-00-0-0	3500K	80	30	0.3x	43	8.2	0.2	177	-	38	7.9	0.2	161	DS58
				60	0.6x	80	8.8	0.5	152	-	70	8.5	0.5	137	
				80	0.8x	103	9.2	0.7	140	-	88	8.9	0.7	124	
				100	1x	123	9.5	1.0	129	10	108	9.2	0.9	118	
				120	1.2x	142	9.8	1.2	120	-	118	9.5	1.1	104	
2835 1W 9V Gen2	BXEN-35G-13H-9B-00-0-0	3500K	90	30	0.3x	36	8.2	0.2	146	-	32	7.9	0.2	133	DS58
				60	0.6x	67	8.8	0.5	126	-	58	8.5	0.5	113	
				80	0.8x	85	9.2	0.7	116	-	73	8.9	0.7	103	
				100	1x	102	9.5	1.0	107	10	90	9.2	0.9	98	
				120	1.2x	118	9.8	1.2	100	-	98	9.5	1.1	86	
2835 1W 9V Gen2	BXEN-40E-13H-9B-00-0-0	4000K	80	30	0.3x	45	8.2	0.2	182	-	39	7.9	0.2	166	DS58
				60	0.6x	83	8.8	0.5	157	-	72	8.5	0.5	141	
				80	0.8x	106	9.2	0.7	144	-	91	8.9	0.7	128	
				100	1x	127	9.5	1.0	134	10	112	9.2	0.9	122	
				120	1.2x	146	9.8	1.2	124	-	122	9.5	1.1	107	
2835 1W 9V Gen2	BXEN-40G-13H-9B-00-0-0	4000K	90	30	0.3x	37	8.2	0.2	151	-	33	7.9	0.2	137	DS58
				60	0.6x	69	8.8	0.5	130	-	59	8.5	0.5	117	
				80	0.8x	88	9.2	0.7	119	-	75	8.9	0.7	106	
				100	1x	105	9.5	1.0	111	10	92	9.2	0.9	101	
				120	1.2x	121	9.8	1.2	103	-	101	9.5	1.1	89	
2835 1W 9V Gen2	BXEN-50E-13H-9B-00-0-0	5000K	80	30	0.3x	45	8.2	0.2	182	-	39	7.9	0.2	166	DS58
				60	0.6x	83	8.8	0.5	157	-	72	8.5	0.5	141	
				80	0.8x	106	9.2	0.7	144	-	91	8.9	0.7	128	
				100	1x	127	9.5	1.0	134	10	112	9.2	0.9	122	
				120	1.2x	146	9.8	1.2	124	-	122	9.5	1.1	107	
2835 1W 9V Gen2	BXEN-50G-13H-9B-00-0-0	5000K	90	30	0.3x	37	8.2	0.2	151	-	33	7.9	0.2	137	DS58
				60	0.6x	69	8.8	0.5	130	-	59	8.5	0.5	117	
				80	0.8x	88	9.2	0.7	119	-	75	8.9	0.7	106	
				100	1x	105	9.5	1.0	111	10	92	9.2	0.9	101	
				120	1.2x	121	9.8	1.2	103	-	101	9.5	1.1	89	
2835 1W 9V Gen2	BXEN-57E-13H-9B-00-0-0	5700K	80	30	0.3x	45	8.2	0.2	182	-	39	7.9	0.2	166	DS58
				60	0.6x	83	8.8	0.5	157	-	72	8.5	0.5	141	
				80	0.8x	106	9.2	0.7	144	-	91	8.9	0.7	128	
				100	1x	127	9.5	1.0	134	10	112	9.2	0.9	122	
				120	1.2x	146	9.8	1.2	124	-	122	9.5	1.1	107	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 1W 9V Gen2	BXEN-57G-13H-9B-00-0-0	5700K	90	30	0.3x	37	8.2	0.2	151	-	33	7.9	0.2	137	DS58
				60	0.6x	69	8.8	0.5	130	-	59	8.5	0.5	117	
				80	0.8x	88	9.2	0.7	119	-	75	8.9	0.7	106	
				100	1x	105	9.5	1.0	111	10	92	9.2	0.9	101	
				120	1.2x	121	9.8	1.2	103	-	101	9.5	1.1	89	
2835 1W 9V Gen2	BXEN-65E-13H-9B-00-0-0	6500K	80	30	0.3x	44	8.2	0.2	179	-	39	7.9	0.2	163	DS58
				60	0.6x	82	8.8	0.5	155	-	71	8.5	0.5	139	
				80	0.8x	104	9.2	0.7	142	-	89	8.9	0.7	126	
				100	1x	125	9.5	1.0	132	10	110	9.2	0.9	120	
				120	1.2x	144	9.8	1.2	122	-	120	9.5	1.1	106	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
2835 1W 12V	BXEN-27E-14H-12A-00-0-0	2700K	80	20	0.3x	34	11.3	0.2	152	-	31	10.9	0.2	141	DS75
				40	0.5x	66	11.7	0.5	141	-	59	11.3	0.5	131	
				60	0.8x	95	12.0	0.7	132	-	85	11.7	0.7	121	
				75	1x	115	12.2	0.9	126	10	101	11.9	0.9	114	
				90	1.2x	134	12.4	1.1	120	-	118	12.1	1.1	109	
2835 1W 12V	BXEN-30E-14H-12A-00-0-0	3000K	80	20	0.3x	36	11.3	0.2	158	-	32	10.9	0.2	147	DS75
				40	0.5x	69	11.7	0.5	147	-	62	11.3	0.5	136	
				60	0.8x	99	12.0	0.7	138	-	88	11.7	0.7	126	
				75	1x	120	12.2	0.9	131	10	106	11.9	0.9	119	
				90	1.2x	140	12.4	1.1	125	-	123	12.1	1.1	113	
2835 1W 12V	BXEN-35E-14H-12A-00-0-0	3500K	80	20	0.3x	36	11.3	0.2	158	-	32	10.9	0.2	147	DS75
				40	0.5x	69	11.7	0.5	147	-	62	11.3	0.5	136	
				60	0.8x	99	12.0	0.7	138	-	88	11.7	0.7	126	
				75	1x	120	12.2	0.9	131	10	106	11.9	0.9	119	
				90	1.2x	140	12.4	1.1	125	-	123	12.1	1.1	113	
2835 1W 12V	BXEN-40E-14H-12A-00-0-0	4000K	80	20	0.3x	37	11.3	0.2	165	-	33	10.9	0.2	153	DS75
				40	0.5x	72	11.7	0.5	154	-	64	11.3	0.5	142	
				60	0.8x	103	12.0	0.7	143	-	92	11.7	0.7	132	
				75	1x	125	12.2	0.9	137	10	110	11.9	0.9	124	
				90	1.2x	146	12.4	1.1	130	-	128	12.1	1.1	118	
2835 1W 12V	BXEN-50E-14H-12A-00-0-0	5000K	80	20	0.3x	37	11.3	0.2	165	-	33	10.9	0.2	153	DS75
				40	0.5x	72	11.7	0.5	154	-	64	11.3	0.5	142	
				60	0.8x	103	12.0	0.7	143	-	92	11.7	0.7	132	
				75	1x	125	12.2	0.9	137	10	110	11.9	0.9	124	
				90	1.2x	146	12.4	1.1	130	-	128	12.1	1.1	118	
2835 1W 12V	BXEN-57E-14H-12A-00-0-0	5700K	80	20	0.3x	37	11.3	0.2	165	-	33	10.9	0.2	153	DS75
				40	0.5x	72	11.7	0.5	154	-	64	11.3	0.5	142	
				60	0.8x	103	12.0	0.7	143	-	92	11.7	0.7	132	
				75	1x	125	12.2	0.9	137	10	110	11.9	0.9	124	
				90	1.2x	146	12.4	1.1	130	-	128	12.1	1.1	118	
2835 1W 12V	BXEN-65E-14H-12A-00-0-0	6500K	80	20	0.3x	37	11.3	0.2	165	-	33	10.9	0.2	153	DS75
				40	0.5x	72	11.7	0.5	154	-	64	11.3	0.5	142	
				60	0.8x	103	12.0	0.7	143	-	92	11.7	0.7	132	
				75	1x	125	12.2	0.9	137	10	110	11.9	0.9	124	
				90	1.2x	146	12.4	1.1	130	-	128	12.1	1.1	118	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 3W 9V	BXEP-27E-233-09A-00-00-0	2700K	80	80	0.3x	108	8.3	0.7	163	-	95	8.0	0.6	147	DS61
				160	0.5x	209	8.7	1.4	149	-	187	8.5	1.4	138	
				240	0.8x	303	9.1	2.2	138	-	268	8.9	2.1	126	
				320	1x	389	9.3	3.0	131	3	338	9.0	2.9	117	
				480	1.5x	541	10.0	4.8	113	-	454	9.7	4.7	97	
5050 3W 9V	BXEP-30E-233-09A-00-00-0	3000K	80	80	0.3x	111	8.3	0.7	168	-	98	8.0	0.6	152	DS61
				160	0.5x	215	8.7	1.4	154	-	192	8.5	1.4	142	
				240	0.8x	312	9.1	2.2	143	-	277	8.9	2.1	130	
				320	1x	401	9.3	3.0	135	3	349	9.0	2.9	121	
				480	1.5x	558	10.0	4.8	117	-	468	9.7	4.7	100	
5050 3W 9V	BXEP-35E-233-09A-00-00-0	3500K	80	80	0.3x	114	8.3	0.7	172	-	100	8.0	0.6	156	DS61
				160	0.5x	221	8.7	1.4	158	-	198	8.5	1.4	146	
				240	0.8x	321	9.1	2.2	147	-	284	8.9	2.1	134	
				320	1x	412	9.3	3.0	138	3	358	9.0	2.9	124	
				480	1.5x	573	10.0	4.8	120	-	480	9.7	4.7	103	
5050 3W 9V	BXEP-40E-233-09A-00-00-0	4000K	80	80	0.3x	119	8.3	0.7	180	-	105	8.0	0.6	163	DS61
				160	0.5x	231	8.7	1.4	165	-	206	8.5	1.4	152	
				240	0.8x	335	9.1	2.2	153	-	297	8.9	2.1	140	
				320	1x	430	9.3	3.0	144	3	374	9.0	2.9	129	
				480	1.5x	598	10.0	4.8	125	-	501	9.7	4.7	108	
5050 3W 9V	BXEP-45E-233-09A-00-00-0	4500K	80	80	0.3x	121	8.3	0.7	182	-	106	8.0	0.6	165	DS61
				160	0.5x	234	8.7	1.4	167	-	209	8.5	1.4	154	
				240	0.8x	338	9.1	2.2	155	-	300	8.9	2.1	141	
				320	1x	435	9.3	3.0	146	3	378	9.0	2.9	131	
				480	1.5x	605	10.0	4.8	127	-	507	9.7	4.7	109	
5050 3W 9V	BXEP-50E-233-09A-00-00-0	5000K	80	80	0.3x	121	8.3	0.7	182	-	106	8.0	0.6	165	DS61
				160	0.5x	234	8.7	1.4	167	-	209	8.5	1.4	154	
				240	0.8x	338	9.1	2.2	155	-	300	8.9	2.1	141	
				320	1x	435	9.3	3.0	146	3	378	9.0	2.9	131	
				480	1.5x	605	10.0	4.8	127	-	507	9.7	4.7	109	
5050 3W 9V	BXEP-57E-233-09A-00-00-0	5700K	80	80	0.3x	121	8.3	0.7	182	-	106	8.0	0.6	165	DS61
				160	0.5x	234	8.7	1.4	167	-	209	8.5	1.4	154	
				240	0.8x	338	9.1	2.2	155	-	300	8.9	2.1	141	
				320	1x	435	9.3	3.0	146	3	378	9.0	2.9	131	
				480	1.5x	605	10.0	4.8	127	-	507	9.7	4.7	109	
5050 3W 9V	BXEP-65E-233-09A-00-00-0	6500K	80	80	0.3x	120	8.3	0.7	181	-	105	8.0	0.6	164	DS61
				160	0.5x	232	8.7	1.4	166	-	207	8.5	1.4	153	
				240	0.8x	336	9.1	2.2	154	-	298	8.9	2.1	140	
				320	1x	432	9.3	3.0	145	3	376	9.0	2.9	130	
				480	1.5x	601	10.0	4.8	126	-	504	9.7	4.7	108	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 3W 18V	BXEP-27E-163-18A-00-00-0	2700K	80	40	0.3x	108	16.3	0.7	165	-	95	15.8	0.6	150	DS62
				80	0.5x	209	17.2	1.4	152	-	187	16.7	1.3	140	
				120	0.8x	303	18.0	2.2	140	-	268	17.4	2.1	128	
				160	1x	389	18.6	3.0	131	3	338	18.1	2.9	117	
				240	1.5x	541	19.7	4.7	115	-	454	19.2	4.6	99	
5050 3W 18V	BXEP-30E-163-18A-00-00-0	3000K	80	40	0.3x	111	16.3	0.7	170	-	98	15.8	0.6	154	DS62
				80	0.5x	215	17.2	1.4	157	-	192	16.7	1.3	144	
				120	0.8x	312	18.0	2.2	145	-	277	17.4	2.1	132	
				160	1x	401	18.6	3.0	135	3	349	18.1	2.9	121	
				240	1.5x	558	19.7	4.7	118	-	468	19.2	4.6	102	
5050 3W 18V	BXEP-35E-163-18A-00-00-0	3500K	80	40	0.3x	114	16.3	0.7	175	-	100	15.8	0.6	159	DS62
				80	0.5x	221	17.2	1.4	161	-	198	16.7	1.3	148	
				120	0.8x	321	18.0	2.2	149	-	284	17.4	2.1	136	
				160	1x	412	18.6	3.0	138	3	358	18.1	2.9	124	
				240	1.5x	573	19.7	4.7	121	-	480	19.2	4.6	104	
5050 3W 18V	BXEP-40E-163-18A-00-00-0	4000K	80	40	0.3x	119	16.3	0.7	183	-	105	15.8	0.6	166	DS62
				80	0.5x	231	17.2	1.4	168	-	206	16.7	1.3	155	
				120	0.8x	335	18.0	2.2	155	-	297	17.4	2.1	142	
				160	1x	430	18.6	3.0	144	3	374	18.1	2.9	129	
				240	1.5x	598	19.7	4.7	127	-	501	19.2	4.6	109	
5050 3W 18V	BXEP-45E-163-18A-00-00-0	4500K	80	40	0.3x	121	16.3	0.7	185	-	106	15.8	0.6	168	DS62
				80	0.5x	234	17.2	1.4	170	-	209	16.7	1.3	156	
				120	0.8x	338	18.0	2.2	157	-	300	17.4	2.1	143	
				160	1x	435	18.6	3.0	146	3	378	18.1	2.9	131	
				240	1.5x	605	19.7	4.7	128	-	507	19.2	4.6	110	
5050 3W 18V	BXEP-50E-163-18A-00-00-0	5000K	80	40	0.3x	121	16.3	0.7	185	-	106	15.8	0.6	168	DS62
				80	0.5x	234	17.2	1.4	170	-	209	16.7	1.3	156	
				120	0.8x	338	18.0	2.2	157	-	300	17.4	2.1	143	
				160	1x	435	18.6	3.0	146	3	378	18.1	2.9	131	
				240	1.5x	605	19.7	4.7	128	-	507	19.2	4.6	110	
5050 3W 18V	BXEP-57E-163-18A-00-00-0	5700K	80	40	0.3x	121	16.3	0.7	185	-	106	15.8	0.6	168	DS62
				80	0.5x	234	17.2	1.4	170	-	209	16.7	1.3	156	
				120	0.8x	338	18.0	2.2	157	-	300	17.4	2.1	143	
				160	1x	435	18.6	3.0	146	3	378	18.1	2.9	131	
				240	1.5x	605	19.7	4.7	128	-	507	19.2	4.6	110	
5050 3W 18V	BXEP-65E-163-18A-00-00-0	6500K	80	40	0.3x	120	16.3	0.7	183	-	105	15.8	0.6	166	DS62
				80	0.5x	232	17.2	1.4	169	-	207	16.7	1.3	155	
				120	0.8x	336	18.0	2.2	156	-	298	17.4	2.1	142	
				160	1x	432	18.6	3.0	145	3	376	18.1	2.9	130	
				240	1.5x	601	19.7	4.7	127	-	504	19.2	4.6	110	



Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 9V	BXEP-27E-435-09A-00-00-0	2700K	80	125	0.3x	161	8.2	1.0	157	-	145	7.9	1.0	146	DS63
				250	0.5x	311	8.6	2.2	144	-	277	8.4	2.1	132	
				375	0.8x	451	9.0	3.4	134	-	396	8.7	3.3	121	
				500	1x	579	9.3	4.7	125	2	504	9.0	4.5	111	
				800	1.6x	846	10.1	8.1	105	-	698	9.8	7.9	89	
5050 5W 9V	BXEP-30E-435-09A-00-00-0	3000K	80	125	0.3x	167	8.2	1.0	163	-	150	7.9	1.0	151	DS63
				250	0.5x	323	8.6	2.2	150	-	287	8.4	2.1	137	
				375	0.8x	467	9.0	3.4	138	-	410	8.7	3.3	125	
				500	1x	600	9.3	4.7	129	2	522	9.0	4.5	116	
				800	1.6x	877	10.1	8.1	109	-	724	9.8	7.9	92	
5050 5W 9V	BXEP-35E-435-09A-00-00-0	3500K	80	125	0.3x	171	8.2	1.0	167	-	153	7.9	1.0	154	DS63
				250	0.5x	330	8.6	2.2	153	-	294	8.4	2.1	141	
				375	0.8x	478	9.0	3.4	142	-	419	8.7	3.3	128	
				500	1x	614	9.3	4.7	132	2	534	9.0	4.5	118	
				800	1.6x	897	10.1	8.1	111	-	741	9.8	7.9	94	
5050 5W 9V	BXEP-40E-435-09A-00-00-0	4000K	80	125	0.3x	174	8.2	1.0	170	-	156	7.9	1.0	157	DS63
				250	0.5x	337	8.6	2.2	156	-	299	8.4	2.1	143	
				375	0.8x	488	9.0	3.4	144	-	428	8.7	3.3	130	
				500	1x	626	9.3	4.7	135	2	545	9.0	4.5	121	
				800	1.6x	915	10.1	8.1	113	-	755	9.8	7.9	96	
5050 5W 9V	BXEP-45E-435-09A-00-00-0	4500K	80	125	0.3x	175	8.2	1.0	171	-	157	7.9	1.0	158	DS63
				250	0.5x	338	8.6	2.2	157	-	301	8.4	2.1	144	
				375	0.8x	490	9.0	3.4	145	-	430	8.7	3.3	131	
				500	1x	629	9.3	4.7	135	2	547	9.0	4.5	121	
				800	1.6x	919	10.1	8.1	114	-	759	9.8	7.9	97	
5050 5W 9V	BXEP-50E-435-09A-00-00-0	5000K	80	125	0.3x	175	8.2	1.0	171	-	157	7.9	1.0	158	DS63
				250	0.5x	338	8.6	2.2	157	-	301	8.4	2.1	144	
				375	0.8x	490	9.0	3.4	145	-	430	8.7	3.3	131	
				500	1x	629	9.3	4.7	135	2	547	9.0	4.5	121	
				800	1.6x	919	10.1	8.1	114	-	759	9.8	7.9	97	
5050 5W 9V	BXEP-57E-435-09A-00-00-0	5700K	80	125	0.3x	175	8.2	1.0	171	-	157	7.9	1.0	158	DS63
				250	0.5x	338	8.6	2.2	157	-	301	8.4	2.1	144	
				375	0.8x	490	9.0	3.4	145	-	430	8.7	3.3	131	
				500	1x	629	9.3	4.7	135	2	547	9.0	4.5	121	
				800	1.6x	919	10.1	8.1	114	-	759	9.8	7.9	97	
5050 5W 9V	BXEP-65E-435-09A-00-00-0	6500K	80	125	0.3x	174	8.2	1.0	169	-	156	7.9	1.0	157	DS63
				250	0.5x	336	8.6	2.2	156	-	298	8.4	2.1	143	
				375	0.8x	486	9.0	3.4	144	-	426	8.7	3.3	130	
				500	1x	624	9.3	4.7	134	2	543	9.0	4.5	120	
				800	1.6x	912	10.1	8.1	113	-	753	9.8	7.9	96	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 36V	BXEP-27E-1C5-36A-00-00-0	2700K	80	31	0.3x	161	32.8	1.0	157	-	145	31.8	1.0	146	DS64
				63	0.5x	311	34.5	2.2	145	-	277	33.4	2.1	133	
				94	0.8x	451	35.9	3.4	134	-	396	34.9	3.3	121	
				125	1x	579	37.2	4.7	125	2	504	36.1	4.5	111	
				200	1.6x	846	39.8	8.0	106	-	698	38.7	7.7	90	
5050 5W 36V	BXEP-30E-1C5-36A-00-00-0	3000K	80	31	0.3x	167	32.8	1.0	163	-	150	31.8	1.0	151	DS64
				63	0.5x	323	34.5	2.2	150	-	287	33.4	2.1	137	
				94	0.8x	467	35.9	3.4	139	-	410	34.9	3.3	125	
				125	1x	600	37.2	4.7	129	2	522	36.1	4.5	116	
				200	1.6x	877	39.8	8.0	110	-	724	38.7	7.7	93	
5050 5W 36V	BXEP-35E-1C5-36A-00-00-0	3500K	80	31	0.3x	171	32.8	1.0	167	-	153	31.8	1.0	154	DS64
				63	0.5x	330	34.5	2.2	153	-	294	33.4	2.1	141	
				94	0.8x	478	35.9	3.4	142	-	419	34.9	3.3	128	
				125	1x	614	37.2	4.7	132	2	534	36.1	4.5	118	
				200	1.6x	897	39.8	8.0	113	-	741	38.7	7.7	96	
5050 5W 36V	BXEP-40E-1C5-36A-00-00-0	4000K	80	31	0.3x	174	32.8	1.0	170	-	156	31.8	1.0	157	DS64
				63	0.5x	337	34.5	2.2	156	-	299	33.4	2.1	143	
				94	0.8x	488	35.9	3.4	145	-	428	34.9	3.3	131	
				125	1x	626	37.2	4.7	135	2	545	36.1	4.5	121	
				200	1.6x	915	39.8	8.0	115	-	755	38.7	7.7	98	
5050 5W 36V	BXEP-45E-1C5-36A-00-00-0	4500K	80	31	0.3x	175	32.8	1.0	171	-	157	31.8	1.0	158	DS64
				63	0.5x	338	34.5	2.2	157	-	301	33.4	2.1	144	
				94	0.8x	490	35.9	3.4	145	-	430	34.9	3.3	131	
				125	1x	629	37.2	4.7	135	2	547	36.1	4.5	121	
				200	1.6x	919	39.8	8.0	116	-	759	38.7	7.7	98	
5050 5W 36V	BXEP-50E-1C5-36A-00-00-0	5000K	80	31	0.3x	175	32.8	1.0	171	-	157	31.8	1.0	158	DS64
				63	0.5x	338	34.5	2.2	157	-	301	33.4	2.1	144	
				94	0.8x	490	35.9	3.4	145	-	430	34.9	3.3	131	
				125	1x	629	37.2	4.7	135	2	547	36.1	4.5	121	
				200	1.6x	919	39.8	8.0	116	-	759	38.7	7.7	98	
5050 5W 36V	BXEP-57E-1C5-36A-00-00-0	5700K	80	31	0.3x	175	32.8	1.0	171	-	157	31.8	1.0	158	DS64
				63	0.5x	338	34.5	2.2	157	-	301	33.4	2.1	144	
				94	0.8x	490	35.9	3.4	145	-	430	34.9	3.3	131	
				125	1x	629	37.2	4.7	135	2	547	36.1	4.5	121	
				200	1.6x	919	39.8	8.0	116	-	759	38.7	7.7	98	
5050 5W 36V	BXEP-65E-1C5-36A-00-00-0	6500K	80	31	0.3x	174	32.8	1.0	169	-	156	31.8	1.0	157	DS64
				63	0.5x	336	34.5	2.2	156	-	298	33.4	2.1	143	
				94	0.8x	486	35.9	3.4	144	-	426	34.9	3.3	130	
				125	1x	624	37.2	4.7	134	2	543	36.1	4.5	120	
				200	1.6x	912	39.8	8.0	115	-	753	38.7	7.7	97	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 9V Gen2	BXEP-27C-435-09B-00-00-0	2700K	70	125	0.3x	186	8.1	1.0	184	-	153	7.8	1.0	156	DS71
				250	0.5x	365	8.4	2.1	174	-	294	8.1	2.0	145	
				375	0.8x	535	8.7	3.2	165	-	425	8.4	3.1	135	
				500	1x	694	8.9	4.5	156	2	616	8.6	4.3	143	
				640	1.3x	864	9.2	5.9	147	-	669	8.9	5.7	117	
				960	1.9x	1206	9.6	9.3	130	-	901	9.4	9.0	100	
				125	0.3x	169	8.1	1.0	168	-	139	7.8	1.0	142	
5050 5W 9V Gen2	BXEP-27E-435-09B-00-00-0	2700K	80	250	0.5x	332	8.4	2.1	159	-	267	8.1	2.0	132	DS71
				375	0.8x	486	8.7	3.2	150	-	387	8.4	3.1	123	
				500	1x	631	8.9	4.5	142	2	560	8.6	4.3	130	
				640	1.3x	786	9.2	5.9	134	-	608	8.9	5.7	107	
				960	1.9x	1096	9.6	9.3	118	-	819	9.4	9.0	91	
				125	0.3x	146	8.1	1.0	144	-	119	7.8	1.0	122	
				250	0.5x	286	8.4	2.1	136	-	230	8.1	2.0	113	
5050 5W 9V Gen2	BXEP-27G-435-09B-00-00-0	2700K	90	375	0.8x	419	8.7	3.2	129	-	333	8.4	3.1	106	DS71
				500	1x	543	8.9	4.5	122	2	482	8.6	4.3	111	
				640	1.3x	676	9.2	5.9	115	-	523	8.9	5.7	92	
				960	1.9x	943	9.6	9.3	102	-	705	9.4	9.0	78	
				125	0.3x	191	8.1	1.0	189	-	156	7.8	1.0	160	
				250	0.5x	375	8.4	2.1	179	-	302	8.1	2.0	149	
				375	0.8x	549	8.7	3.2	169	-	436	8.4	3.1	139	
5050 5W 9V Gen2	BXEP-30C-435-09B-00-00-0	3000K	70	500	1x	712	8.9	4.5	160	2	632	8.6	4.3	146	DS71
				640	1.3x	886	9.2	5.9	151	-	686	8.9	5.7	120	
				960	1.9x	1237	9.6	9.3	134	-	924	9.4	9.0	103	
				125	0.3x	174	8.1	1.0	172	-	142	7.8	1.0	145	
				250	0.5x	341	8.4	2.1	163	-	274	8.1	2.0	135	
				375	0.8x	499	8.7	3.2	154	-	396	8.4	3.1	126	
				500	1x	647	8.9	4.5	145	2	574	8.6	4.3	133	
5050 5W 9V Gen2	BXEP-30E-435-09B-00-00-0	3000K	80	640	1.3x	806	9.2	5.9	137	-	624	8.9	5.7	109	DS71
				960	1.9x	1124	9.6	9.3	121	-	840	9.4	9.0	93	
				125	0.3x	149	8.1	1.0	148	-	122	7.8	1.0	125	
				250	0.5x	293	8.4	2.1	140	-	236	8.1	2.0	116	
				375	0.8x	429	8.7	3.2	132	-	341	8.4	3.1	108	
				500	1x	556	8.9	4.5	125	2	493	8.6	4.3	114	
				640	1.3x	692	9.2	5.9	118	-	536	8.9	5.7	94	
5050 5W 9V Gen2	BXEP-30G-435-09B-00-00-0	3000K	90	960	1.9x	966	9.6	9.3	104	-	722	9.4	9.0	80	DS71
				125	0.3x	196	8.1	1.0	194	-	160	7.8	1.0	164	
				250	0.5x	384	8.4	2.1	183	-	309	8.1	2.0	152	
				375	0.8x	562	8.7	3.2	173	-	447	8.4	3.1	142	
				500	1x	729	8.9	4.5	164	2	647	8.6	4.3	150	
				640	1.3x	908	9.2	5.9	155	-	703	8.9	5.7	123	
				960	1.9x	1266	9.6	9.3	137	-	946	9.4	9.0	105	
5050 5W 9V Gen2	BXEP-35C-435-09B-00-00-0	3500K	70	125	0.3x	178	8.1	1.0	176	-	146	7.8	1.0	149	DS71
				250	0.5x	349	8.4	2.1	167	-	281	8.1	2.0	138	
				375	0.8x	511	8.7	3.2	157	-	406	8.4	3.1	129	
				500	1x	663	8.9	4.5	149	2	588	8.6	4.3	136	
				640	1.3x	825	9.2	5.9	141	-	639	8.9	5.7	112	
				960	1.9x	1152	9.6	9.3	124	-	860	9.4	9.0	95	
				125	0.3x	201	8.1	1.0	199	-	164	7.8	1.0	168	
5050 5W 9V Gen2	BXEP-40C-435-09B-00-00-0	4000K	70	250	0.5x	393	8.4	2.1	188	-	317	8.1	2.0	156	DS71
				375	0.8x	576	8.7	3.2	177	-	458	8.4	3.1	145	
				500	1x	747	8.9	4.5	168	2	663	8.6	4.3	153	
				640	1.3x	930	9.2	5.9	159	-	720	8.9	5.7	126	
				960	1.9x	1298	9.6	9.3	140	-	969	9.4	9.0	108	
				125	0.3x	186	8.1	1.0	184	-	153	7.8	1.0	156	
				250	0.5x	365	8.4	2.1	174	-	294	8.1	2.0	145	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 9V Gen2	BXEP-40E-435-09B-00-00-0	4000K	80	125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	153	DS71
				250	0.5x	357	8.4	2.1	171	-	288	8.1	2.0	142	
				375	0.8x	523	8.7	3.2	161	-	416	8.4	3.1	132	
				500	1x	679	8.9	4.5	153	2	602	8.6	4.3	139	
				640	1.3x	845	9.2	5.9	144	-	654	8.9	5.7	115	
				960	1.9x	1180	9.6	9.3	127	-	881	9.4	9.0	98	
				125	0.3x	201	8.1	1.0	199	-	164	7.8	1.0	168	
5050 5W 9V Gen2	BXEP-45C-435-09B-00-00-0	4500K	70	250	0.5x	393	8.4	2.1	188	-	317	8.1	2.0	156	DS71
				375	0.8x	576	8.7	3.2	177	-	458	8.4	3.1	145	
				500	1x	747	8.9	4.5	168	2	663	8.6	4.3	153	
				640	1.3x	930	9.2	5.9	159	-	720	8.9	5.7	126	
				960	1.9x	1298	9.6	9.3	140	-	969	9.4	9.0	108	
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	153	
				250	0.5x	357	8.4	2.1	171	-	288	8.1	2.0	142	
5050 5W 9V Gen2	BXEP-45E-435-09B-00-00-0	4500K	80	375	0.8x	523	8.7	3.2	161	-	416	8.4	3.1	132	DS71
				500	1x	679	8.9	4.5	153	2	602	8.6	4.3	139	
				640	1.3x	845	9.2	5.9	144	-	654	8.9	5.7	115	
				960	1.9x	1180	9.6	9.3	127	-	881	9.4	9.0	98	
				125	0.3x	201	8.1	1.0	199	-	164	7.8	1.0	168	
				250	0.5x	393	8.4	2.1	188	-	317	8.1	2.0	156	
				375	0.8x	576	8.7	3.2	177	-	458	8.4	3.1	145	
5050 5W 9V Gen2	BXEP-50C-435-09B-00-00-0	5000K	70	500	1x	747	8.9	4.5	168	2	663	8.6	4.3	153	DS71
				640	1.3x	930	9.2	5.9	159	-	720	8.9	5.7	126	
				960	1.9x	1298	9.6	9.3	140	-	969	9.4	9.0	108	
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	153	
				250	0.5x	357	8.4	2.1	171	-	288	8.1	2.0	142	
				375	0.8x	523	8.7	3.2	161	-	416	8.4	3.1	132	
				500	1x	679	8.9	4.5	153	2	602	8.6	4.3	139	
5050 5W 9V Gen2	BXEP-50E-435-09B-00-00-0	5000K	80	640	1.3x	845	9.2	5.9	144	-	654	8.9	5.7	115	DS71
				960	1.9x	1180	9.6	9.3	127	-	881	9.4	9.0	98	
				125	0.3x	200	8.1	1.0	198	-	163	7.8	1.0	167	
				250	0.5x	392	8.4	2.1	187	-	315	8.1	2.0	155	
				375	0.8x	574	8.7	3.2	177	-	456	8.4	3.1	145	
				500	1x	744	8.9	4.5	167	2	660	8.6	4.3	153	
				640	1.3x	926	9.2	5.9	158	-	717	8.9	5.7	126	
5050 5W 9V Gen2	BXEP-57C-435-09B-00-00-0	5700K	70	960	1.9x	1293	9.6	9.3	140	-	966	9.4	9.0	107	DS71
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	152	
				250	0.5x	356	8.4	2.1	170	-	286	8.1	2.0	141	
				375	0.8x	521	8.7	3.2	161	-	414	8.4	3.1	132	
				500	1x	676	8.9	4.5	152	2	600	8.6	4.3	139	
				640	1.3x	842	9.2	5.9	143	-	652	8.9	5.7	114	
				960	1.9x	1174	9.6	9.3	127	-	877	9.4	9.0	97	
5050 5W 9V Gen2	BXEP-57E-435-09B-00-00-0	5700K	80	125	0.3x	200	8.1	1.0	198	-	163	7.8	1.0	167	DS71
				250	0.5x	392	8.4	2.1	187	-	315	8.1	2.0	155	
				375	0.8x	574	8.7	3.2	177	-	456	8.4	3.1	145	
				500	1x	744	8.9	4.5	167	2	660	8.6	4.3	153	
				640	1.3x	926	9.2	5.9	158	-	717	8.9	5.7	126	
				960	1.9x	1293	9.6	9.3	140	-	966	9.4	9.0	107	
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	152	
5050 5W 9V Gen2	BXEP-65C-435-09B-00-00-0	6500K	70	250	0.5x	356	8.4	2.1	170	-	286	8.1	2.0	141	DS71
				375	0.8x	521	8.7	3.2	161	-	414	8.4	3.1	132	
				500	1x	676	8.9	4.5	152	2	600	8.6	4.3	139	
				640	1.3x	842	9.2	5.9	143	-	652	8.9	5.7	114	
				960	1.9x	1174	9.6	9.3	127	-	877	9.4	9.0	97	
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	152	
				250	0.5x	356	8.4	2.1	170	-	286	8.1	2.0	141	
5050 5W 9V Gen2	BXEP-65E-435-09B-00-00-0	6500K	80	375	0.8x	521	8.7	3.2	161	-	414	8.4	3.1	132	DS71
				500	1x	676	8.9	4.5	152	2	600	8.6	4.3	139	
				640	1.3x	842	9.2	5.9	143	-	652	8.9	5.7	114	
				960	1.9x	1174	9.6	9.3	127	-	877	9.4	9.0	97	
				125	0.3x	182	8.1	1.0	180	-	149	7.8	1.0	152	
				250	0.5x	356	8.4	2.1	170	-	286	8.1	2.0	141	
				375	0.8x	521	8.7	3.2	161	-	414	8.4	3.1	132	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 36V Gen2	BXEP-27C-1C5-36B-00-00-0	2700K	70	31	0.2x	185	32.2	1.0	185	-	151	31.2	1.0	157	DS69
				63	0.5x	368	33.4	2.1	175	-	296	32.4	2.0	145	
				94	0.8x	536	34.5	3.2	165	-	426	33.5	3.1	135	
				125	1x	694	35.5	4.4	156	2	616	34.5	4.3	143	
				160	1.3x	864	36.6	5.8	148	-	669	35.5	5.7	118	
				240	1.9x	1206	38.5	9.2	131	-	901	37.4	9.0	100	
				31	0.2x	168	32.2	1.0	168	-	138	31.2	1.0	142	
5050 5W 36V Gen2	BXEP-27E-1C5-36B-00-00-0	2700K	80	63	0.5x	335	33.4	2.1	159	-	269	32.4	2.0	132	DS69
				94	0.8x	488	34.5	3.2	150	-	388	33.5	3.1	123	
				125	1x	631	35.5	4.4	142	2	560	34.5	4.3	130	
				160	1.3x	786	36.6	5.8	134	-	608	35.5	5.7	107	
				240	1.9x	1096	38.5	9.2	119	-	819	37.4	9.0	91	
				31	0.2x	145	32.2	1.0	145	-	118	31.2	1.0	122	
				63	0.5x	288	33.4	2.1	137	-	232	32.4	2.0	114	
5050 5W 36V Gen2	BXEP-27G-1C5-36B-00-00-0	2700K	90	94	0.8x	420	34.5	3.2	129	-	334	33.5	3.1	106	DS69
				125	1x	543	35.5	4.4	122	2	482	34.5	4.3	112	
				160	1.3x	676	36.6	5.8	116	-	523	35.5	5.7	92	
				240	1.9x	943	38.5	9.2	102	-	705	37.4	9.0	78	
				31	0.2x	190	32.2	1.0	190	-	155	31.2	1.0	161	
				63	0.5x	378	33.4	2.1	179	-	304	32.4	2.0	149	
				94	0.8x	550	34.5	3.2	170	-	437	33.5	3.1	139	
5050 5W 36V Gen2	BXEP-30C-1C5-36B-00-00-0	3000K	70	125	1x	712	35.5	4.4	160	2	632	34.5	4.3	146	DS69
				160	1.3x	886	36.6	5.8	152	-	686	35.5	5.7	121	
				240	1.9x	1237	38.5	9.2	134	-	924	37.4	9.0	103	
				31	0.2x	172	32.2	1.0	173	-	141	31.2	1.0	146	
				63	0.5x	343	33.4	2.1	163	-	276	32.4	2.0	135	
				94	0.8x	500	34.5	3.2	154	-	397	33.5	3.1	126	
				125	1x	647	35.5	4.4	146	2	574	34.5	4.3	133	
5050 5W 36V Gen2	BXEP-30E-1C5-36B-00-00-0	3000K	80	160	1.3x	806	36.6	5.8	138	-	624	35.5	5.7	110	DS69
				240	1.9x	1124	38.5	9.2	122	-	840	37.4	9.0	93	
				31	0.2x	148	32.2	1.0	148	-	121	31.2	1.0	125	
				63	0.5x	295	33.4	2.1	140	-	237	32.4	2.0	116	
				94	0.8x	430	34.5	3.2	132	-	342	33.5	3.1	108	
				125	1x	556	35.5	4.4	125	2	493	34.5	4.3	114	
				160	1.3x	692	36.6	5.8	118	-	536	35.5	5.7	94	
5050 5W 36V Gen2	BXEP-30G-1C5-36B-00-00-0	3000K	90	240	1.9x	966	38.5	9.2	105	-	722	37.4	9.0	80	DS69
				31	0.2x	194	32.2	1.0	194	-	159	31.2	1.0	164	
				63	0.5x	387	33.4	2.1	184	-	311	32.4	2.0	152	
				94	0.8x	563	34.5	3.2	174	-	448	33.5	3.1	142	
				125	1x	729	35.5	4.4	164	2	647	34.5	4.3	150	
				160	1.3x	908	36.6	5.8	155	-	703	35.5	5.7	124	
				240	1.9x	1266	38.5	9.2	137	-	946	37.4	9.0	105	
5050 5W 36V Gen2	BXEP-35C-1C5-36B-00-00-0	3500K	70	31	0.2x	177	32.2	1.0	177	-	145	31.2	1.0	150	DS69
				63	0.5x	352	33.4	2.1	167	-	283	32.4	2.0	139	
				94	0.8x	512	34.5	3.2	158	-	407	33.5	3.1	129	
				125	1x	663	35.5	4.4	149	2	588	34.5	4.3	136	
				160	1.3x	825	36.6	5.8	141	-	639	35.5	5.7	112	
				240	1.9x	1152	38.5	9.2	125	-	860	37.4	9.0	96	
				31	0.2x	199	32.2	1.0	199	-	163	31.2	1.0	168	
5050 5W 36V Gen2	BXEP-40C-1C5-36B-00-00-0	4000K	70	63	0.5x	396	33.4	2.1	188	-	319	32.4	2.0	156	DS69
				94	0.8x	577	34.5	3.2	178	-	459	33.5	3.1	146	
				125	1x	747	35.5	4.4	168	2	663	34.5	4.3	154	
				160	1.3x	930	36.6	5.8	159	-	720	35.5	5.7	127	
				240	1.9x	1298	38.5	9.2	141	-	969	37.4	9.0	108	
				31	0.2x	199	32.2	1.0	199	-	163	31.2	1.0	168	
				63	0.5x	396	33.4	2.1	188	-	319	32.4	2.0	156	
				94	0.8x	577	34.5	3.2	178	-	459	33.5	3.1	146	
				125	1x	747	35.5	4.4	168	2	663	34.5	4.3	154	
				160	1.3x	930	36.6	5.8	159	-	720	35.5	5.7	127	
				240	1.9x	1298	38.5	9.2	141	-	969	37.4	9.0	108	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 5W 36V Gen2	BXEP-40E-1C5-36B-00-00-0	4000K	80	31	0.2x	181	32.2	1.0	181	-	148	31.2	1.0	153	DS69
				63	0.5x	360	33.4	2.1	171	-	290	32.4	2.0	142	
				94	0.8x	525	34.5	3.2	162	-	417	33.5	3.1	132	
				125	1x	679	35.5	4.4	153	2	602	34.5	4.3	140	
				160	1.3x	845	36.6	5.8	145	-	654	35.5	5.7	115	
				240	1.9x	1180	38.5	9.2	128	-	881	37.4	9.0	98	
				31	0.2x	199	32.2	1.0	199	-	163	31.2	1.0	168	
5050 5W 36V Gen2	BXEP-45C-1C5-36B-00-00-0	4500K	70	63	0.5x	396	33.4	2.1	188	-	319	32.4	2.0	156	DS69
				94	0.8x	577	34.5	3.2	178	-	459	33.5	3.1	146	
				125	1x	747	35.5	4.4	168	2	663	34.5	4.3	154	
				160	1.3x	930	36.6	5.8	159	-	720	35.5	5.7	127	
				240	1.9x	1298	38.5	9.2	141	-	969	37.4	9.0	108	
				31	0.2x	181	32.2	1.0	181	-	148	31.2	1.0	153	
				63	0.5x	360	33.4	2.1	171	-	290	32.4	2.0	142	
5050 5W 36V Gen2	BXEP-45E-1C5-36B-00-00-0	4500K	80	94	0.8x	525	34.5	3.2	162	-	417	33.5	3.1	132	DS69
				125	1x	679	35.5	4.4	153	2	602	34.5	4.3	140	
				160	1.3x	845	36.6	5.8	145	-	654	35.5	5.7	115	
				240	1.9x	1180	38.5	9.2	128	-	881	37.4	9.0	98	
				31	0.2x	199	32.2	1.0	199	-	163	31.2	1.0	168	
				63	0.5x	396	33.4	2.1	188	-	319	32.4	2.0	156	
				94	0.8x	577	34.5	3.2	178	-	459	33.5	3.1	146	
5050 5W 36V Gen2	BXEP-50C-1C5-36B-00-00-0	5000K	70	125	1x	747	35.5	4.4	168	2	663	34.5	4.3	154	DS69
				160	1.3x	930	36.6	5.8	159	-	720	35.5	5.7	127	
				240	1.9x	1298	38.5	9.2	141	-	969	37.4	9.0	108	
				31	0.2x	181	32.2	1.0	181	-	148	31.2	1.0	153	
				63	0.5x	360	33.4	2.1	171	-	290	32.4	2.0	142	
				94	0.8x	525	34.5	3.2	162	-	417	33.5	3.1	132	
				125	1x	679	35.5	4.4	153	2	602	34.5	4.3	140	
5050 5W 36V Gen2	BXEP-50E-1C5-36B-00-00-0	5000K	80	160	1.3x	845	36.6	5.8	145	-	654	35.5	5.7	115	DS69
				240	1.9x	1180	38.5	9.2	128	-	881	37.4	9.0	98	
				31	0.2x	198	32.2	1.0	198	-	162	31.2	1.0	168	
				63	0.5x	395	33.4	2.1	187	-	318	32.4	2.0	156	
				94	0.8x	575	34.5	3.2	177	-	457	33.5	3.1	145	
				125	1x	744	35.5	4.4	168	2	660	34.5	4.3	153	
				160	1.3x	926	36.6	5.8	158	-	717	35.5	5.7	126	
5050 5W 36V Gen2	BXEP-57C-1C5-36B-00-00-0	5700K	70	240	1.9x	1293	38.5	9.2	140	-	966	37.4	9.0	107	DS69
				31	0.2x	180	32.2	1.0	180	-	147	31.2	1.0	152	
				63	0.5x	359	33.4	2.1	170	-	289	32.4	2.0	141	
				94	0.8x	522	34.5	3.2	161	-	415	33.5	3.1	132	
				125	1x	676	35.5	4.4	152	2	600	34.5	4.3	139	
				160	1.3x	842	36.6	5.8	144	-	652	35.5	5.7	115	
				240	1.9x	1174	38.5	9.2	127	-	877	37.4	9.0	98	
5050 5W 36V Gen2	BXEP-57E-1C5-36B-00-00-0	5700K	80	31	0.2x	198	32.2	1.0	198	-	162	31.2	1.0	168	DS69
				63	0.5x	395	33.4	2.1	187	-	318	32.4	2.0	156	
				94	0.8x	575	34.5	3.2	177	-	457	33.5	3.1	145	
				125	1x	744	35.5	4.4	168	2	660	34.5	4.3	153	
				160	1.3x	926	36.6	5.8	158	-	717	35.5	5.7	126	
				240	1.9x	1293	38.5	9.2	140	-	966	37.4	9.0	107	
				31	0.2x	180	32.2	1.0	180	-	147	31.2	1.0	152	
5050 5W 36V Gen2	BXEP-65C-1C5-36B-00-00-0	6500K	70	63	0.5x	359	33.4	2.1	170	-	289	32.4	2.0	141	DS69
				94	0.8x	522	34.5	3.2	161	-	415	33.5	3.1	132	
				125	1x	676	35.5	4.4	152	2	600	34.5	4.3	139	
				160	1.3x	842	36.6	5.8	144	-	652	35.5	5.7	115	
				240	1.9x	1174	38.5	9.2	127	-	877	37.4	9.0	98	
				31	0.2x	198	32.2	1.0	198	-	162	31.2	1.0	168	
				63	0.5x	395	33.4	2.1	187	-	318	32.4	2.0	156	
5050 5W 36V Gen2	BXEP-65E-1C5-36B-00-00-0	6500K	80	94	0.8x	575	34.5	3.2	177	-	457	33.5	3.1	145	DS69
				125	1x	744	35.5	4.4	168	2	660	34.5	4.3	153	
				160	1.3x	926	36.6	5.8	158	-	717	35.5	5.7	126	
				240	1.9x	1293	38.5	9.2	140	-	966	37.4	9.0	107	
				31	0.2x	180	32.2	1.0	180	-	147	31.2	1.0	152	
				63	0.5x	359	33.4	2.1	170	-	289	32.4	2.0	141	
				94	0.8x	522	34.5	3.2	161	-	415	33.5	3.1	132	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (v)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 1W 24V	BXEP-27C-181-24A-00-00-0	2700K	70	30	0.7x	123	21.6	0.6	189	-	99	20.8	0.6	159	DS73
				45	1x	183	22.0	1.0	185	3	164	21.2	1.0	172	
				90	2x	355	23.0	2.1	171	-	281	22.2	2.0	141	
				135	3x	516	23.9	3.2	160	-	402	23.1	3.1	129	
				180	4x	666	24.7	4.4	150	-	508	23.9	4.3	118	
				240	5x	848	25.5	6.1	139	-	629	24.7	5.9	106	
5050 1W 24V	BXEP-27E-181-24A-00-00-0	2700K	80	30	0.7x	111	21.6	0.6	172	-	90	20.8	0.6	144	DS73
				45	1x	166	22.0	1.0	168	3	149	21.2	1.0	156	
				90	2x	322	23.0	2.1	156	-	255	22.2	2.0	128	
				135	3x	468	23.9	3.2	145	-	364	23.1	3.1	117	
				180	4x	604	24.7	4.4	136	-	461	23.9	4.3	107	
				240	5x	770	25.5	6.1	126	-	570	24.7	5.9	96	
5050 1W 24V	BXEP-27G-181-24A-00-00-0	2700K	90	30	0.7x	96	21.6	0.6	148	-	77	20.8	0.6	124	DS73
				45	1x	143	22.0	1.0	144	3	128	21.2	1.0	134	
				90	2x	277	23.0	2.1	134	-	220	22.2	2.0	110	
				135	3x	403	23.9	3.2	125	-	314	23.1	3.1	101	
				180	4x	520	24.7	4.4	117	-	397	23.9	4.3	92	
				240	5x	663	25.5	6.1	108	-	491	24.7	5.9	83	
5050 1W 24V	BXEP-30C-181-24A-00-00-0	3000K	70	30	0.7x	125	21.6	0.6	194	-	101	20.8	0.6	162	DS73
				45	1x	187	22.0	1.0	189	3	168	21.2	1.0	176	
				90	2x	363	23.0	2.1	175	-	287	22.2	2.0	144	
				135	3x	527	23.9	3.2	163	-	410	23.1	3.1	131	
				180	4x	681	24.7	4.4	153	-	519	23.9	4.3	121	
				240	5x	867	25.5	6.1	142	-	642	24.7	5.9	108	
5050 1W 24V	BXEP-30E-181-24A-00-00-0	3000K	80	30	0.7x	114	21.6	0.6	176	-	92	20.8	0.6	148	DS73
				45	1x	170	22.0	1.0	172	3	152	21.2	1.0	160	
				90	2x	330	23.0	2.1	159	-	261	22.2	2.0	131	
				135	3x	480	23.9	3.2	149	-	373	23.1	3.1	119	
				180	4x	619	24.7	4.4	139	-	472	23.9	4.3	110	
				240	5x	788	25.5	6.1	129	-	584	24.7	5.9	99	
5050 1W 24V	BXEP-30G-181-24A-00-00-0	3000K	90	30	0.7x	98	21.6	0.6	151	-	79	20.8	0.6	127	DS73
				45	1x	146	22.0	1.0	147	3	131	21.2	1.0	137	
				90	2x	283	23.0	2.1	137	-	224	22.2	2.0	112	
				135	3x	412	23.9	3.2	128	-	320	23.1	3.1	103	
				180	4x	531	24.7	4.4	120	-	405	23.9	4.3	94	
				240	5x	677	25.5	6.1	111	-	501	24.7	5.9	85	
5050 1W 24V	BXEP-35C-181-24A-00-00-0	3500K	70	30	0.7x	129	21.6	0.6	200	-	105	20.8	0.6	168	DS73
				45	1x	193	22.0	1.0	195	3	173	21.2	1.0	181	
				90	2x	374	23.0	2.1	181	-	297	22.2	2.0	148	
				135	3x	544	23.9	3.2	169	-	423	23.1	3.1	136	
				180	4x	702	24.7	4.4	158	-	536	23.9	4.3	125	
				240	5x	895	25.5	6.1	146	-	663	24.7	5.9	112	
5050 1W 24V	BXEP-35E-181-24A-00-00-0	3500K	80	30	0.7x	117	21.6	0.6	181	-	95	20.8	0.6	152	DS73
				45	1x	175	22.0	1.0	177	3	157	21.2	1.0	164	
				90	2x	340	23.0	2.1	164	-	269	22.2	2.0	134	
				135	3x	494	23.9	3.2	153	-	384	23.1	3.1	123	
				180	4x	637	24.7	4.4	143	-	486	23.9	4.3	113	
				240	5x	811	25.5	6.1	133	-	601	24.7	5.9	101	
5050 1W 24V	BXEP-40C-181-24A-00-00-0	4000K	70	30	0.7x	132	21.6	0.6	204	-	107	20.8	0.6	171	DS73
				45	1x	197	22.0	1.0	199	3	177	21.2	1.0	185	
				90	2x	382	23.0	2.1	185	-	303	22.2	2.0	151	
				135	3x	556	23.9	3.2	172	-	432	23.1	3.1	138	
				180	4x	717	24.7	4.4	161	-	547	23.9	4.3	127	
				240	5x	913	25.5	6.1	149	-	677	24.7	5.9	114	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T <sub>c</sub> 25°C (lm)	V <sub>f</sub> T <sub>c</sub> 25°C (V)	Power T <sub>c</sub> 25°C (W)	Typical Efficacy T <sub>c</sub> 25°C (lm/W)	Thermal Resistance Junction to Case <sup>1</sup> (C/W)	Typical DC Flux T <sub>c</sub> 85°C (lm)	V <sub>f</sub> T <sub>c</sub> 85°C (V)	Power T <sub>c</sub> 85°C (W)	Typical Efficacy T <sub>c</sub> 85°C (lm/W)	Data Sheet
5050 1W 24V	BXEP-40E-181-24A-00-00-0	4000K	80	30	0.7x	120	21.6	0.6	185	-	97	20.8	0.6	155	DS73
				45	1x	179	22.0	1.0	181	3	160	21.2	1.0	168	
				90	2x	347	23.0	2.1	168	-	275	22.2	2.0	138	
				135	3x	505	23.9	3.2	156	-	393	23.1	3.1	126	
				180	4x	652	24.7	4.4	147	-	497	23.9	4.3	116	
				240	5x	830	25.5	6.1	136	-	615	24.7	5.9	104	
5050 1W 24V	BXEP-45C-181-24A-00-00-0	4500K	70	30	0.7x	132	21.6	0.6	204	-	107	20.8	0.6	171	DS73
				45	1x	197	22.0	1.0	199	3	177	21.2	1.0	185	
				90	2x	382	23.0	2.1	185	-	303	22.2	2.0	151	
				135	3x	556	23.9	3.2	172	-	432	23.1	3.1	138	
				180	4x	717	24.7	4.4	161	-	547	23.9	4.3	127	
				240	5x	913	25.5	6.1	149	-	677	24.7	5.9	114	
5050 1W 24V	BXEP-45E-181-24A-00-00-0	4500K	80	30	0.7x	120	21.6	0.6	185	-	97	20.8	0.6	155	DS73
				45	1x	179	22.0	1.0	181	3	160	21.2	1.0	168	
				90	2x	347	23.0	2.1	168	-	275	22.2	2.0	138	
				135	3x	505	23.9	3.2	156	-	393	23.1	3.1	126	
				180	4x	652	24.7	4.4	147	-	497	23.9	4.3	116	
				240	5x	830	25.5	6.1	136	-	615	24.7	5.9	104	
5050 1W 24V	BXEP-50C-181-24A-00-00-0	5000K	70	30	0.7x	132	21.6	0.6	204	-	107	20.8	0.6	171	DS73
				45	1x	197	22.0	1.0	199	3	177	21.2	1.0	185	
				90	2x	382	23.0	2.1	185	-	303	22.2	2.0	151	
				135	3x	556	23.9	3.2	172	-	432	23.1	3.1	138	
				180	4x	717	24.7	4.4	161	-	547	23.9	4.3	127	
				240	5x	913	25.5	6.1	149	-	677	24.7	5.9	114	
5050 1W 24V	BXEP-50E-181-24A-00-00-0	5000K	80	30	0.7x	120	21.6	0.6	185	-	97	20.8	0.6	155	DS73
				45	1x	179	22.0	1.0	181	3	160	21.2	1.0	168	
				90	2x	347	23.0	2.1	168	-	275	22.2	2.0	138	
				135	3x	505	23.9	3.2	156	-	393	23.1	3.1	126	
				180	4x	652	24.7	4.4	147	-	497	23.9	4.3	116	
				240	5x	830	25.5	6.1	136	-	615	24.7	5.9	104	
5050 1W 24V	BXEP-57C-181-24A-00-00-0	5700K	70	30	0.7x	131	21.6	0.6	203	-	106	20.8	0.6	170	DS73
				45	1x	196	22.0	1.0	198	3	176	21.2	1.0	184	
				90	2x	380	23.0	2.1	184	-	301	22.2	2.0	151	
				135	3x	553	23.9	3.2	171	-	430	23.1	3.1	138	
				180	4x	713	24.7	4.4	161	-	544	23.9	4.3	127	
				240	5x	909	25.5	6.1	149	-	673	24.7	5.9	114	
5050 1W 24V	BXEP-57E-181-24A-00-00-0	5700K	80	30	0.7x	119	21.6	0.6	184	-	96	20.8	0.6	155	DS73
				45	1x	178	22.0	1.0	180	3	159	21.2	1.0	167	
				90	2x	345	23.0	2.1	167	-	273	22.2	2.0	137	
				135	3x	502	23.9	3.2	156	-	391	23.1	3.1	125	
				180	4x	648	24.7	4.4	146	-	494	23.9	4.3	115	
				240	5x	825	25.5	6.1	135	-	611	24.7	5.9	103	
5050 1W 24V	BXEP-65C-181-24A-00-00-0	6500K	70	30	0.7x	131	21.6	0.6	203	-	106	20.8	0.6	170	DS73
				45	1x	196	22.0	1.0	198	3	176	21.2	1.0	184	
				90	2x	380	23.0	2.1	184	-	301	22.2	2.0	151	
				135	3x	553	23.9	3.2	171	-	430	23.1	3.1	138	
				180	4x	713	24.7	4.4	161	-	544	23.9	4.3	127	
				240	5x	909	25.5	6.1	149	-	673	24.7	5.9	114	
5050 1W 24V	BXEP-65E-181-24A-00-00-0	6500K	80	30	0.7x	119	21.6	0.6	184	-	96	20.8	0.6	155	DS73
				45	1x	178	22.0	1.0	180	3	159	21.2	1.0	167	
				90	2x	345	23.0	2.1	167	-	273	22.2	2.0	137	
				135	3x	502	23.9	3.2	156	-	391	23.1	3.1	125	
				180	4x	648	24.7	4.4	146	-	494	23.9	4.3	115	
				240	5x	825	25.5	6.1	135	-	611	24.7	5.9	103	