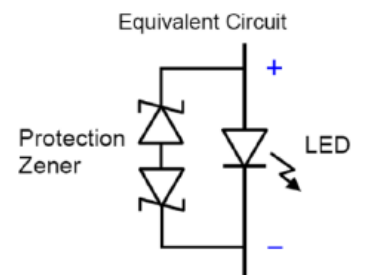
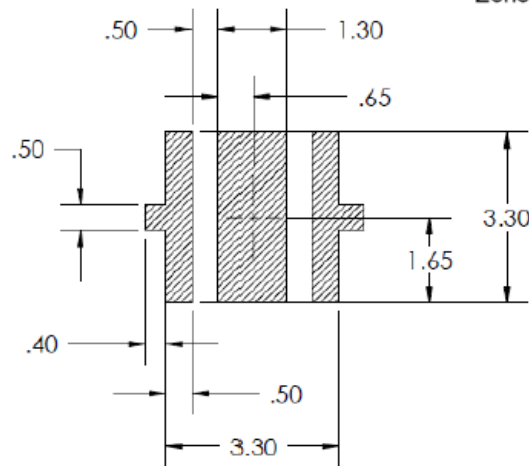
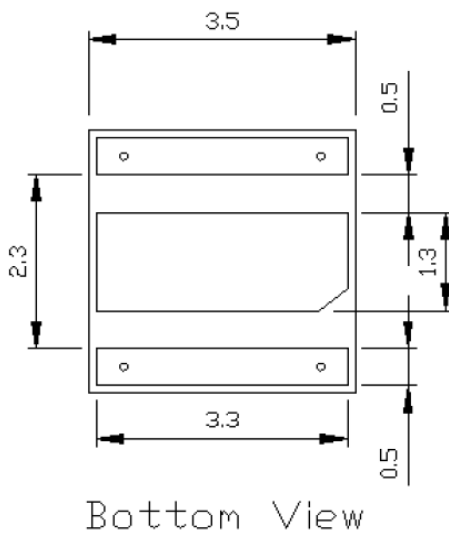
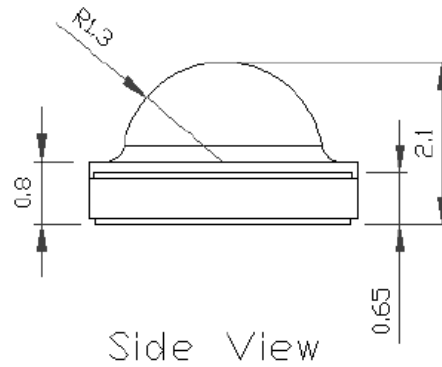
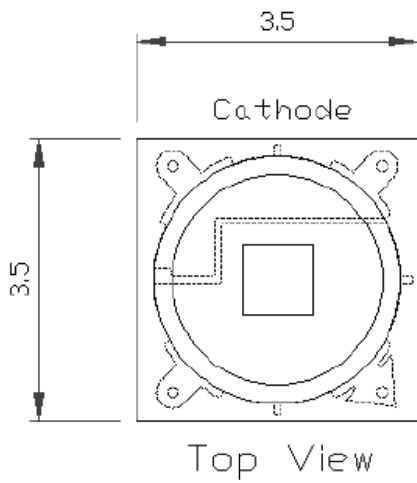
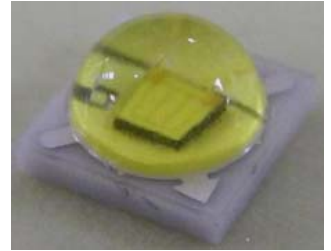


■ Package Dimension:



Part NO.	Chip	Emitting Color	Lens Color
AL-01CEW01WCP-A2	InGaN	Cool White	Water Clear

Notes:

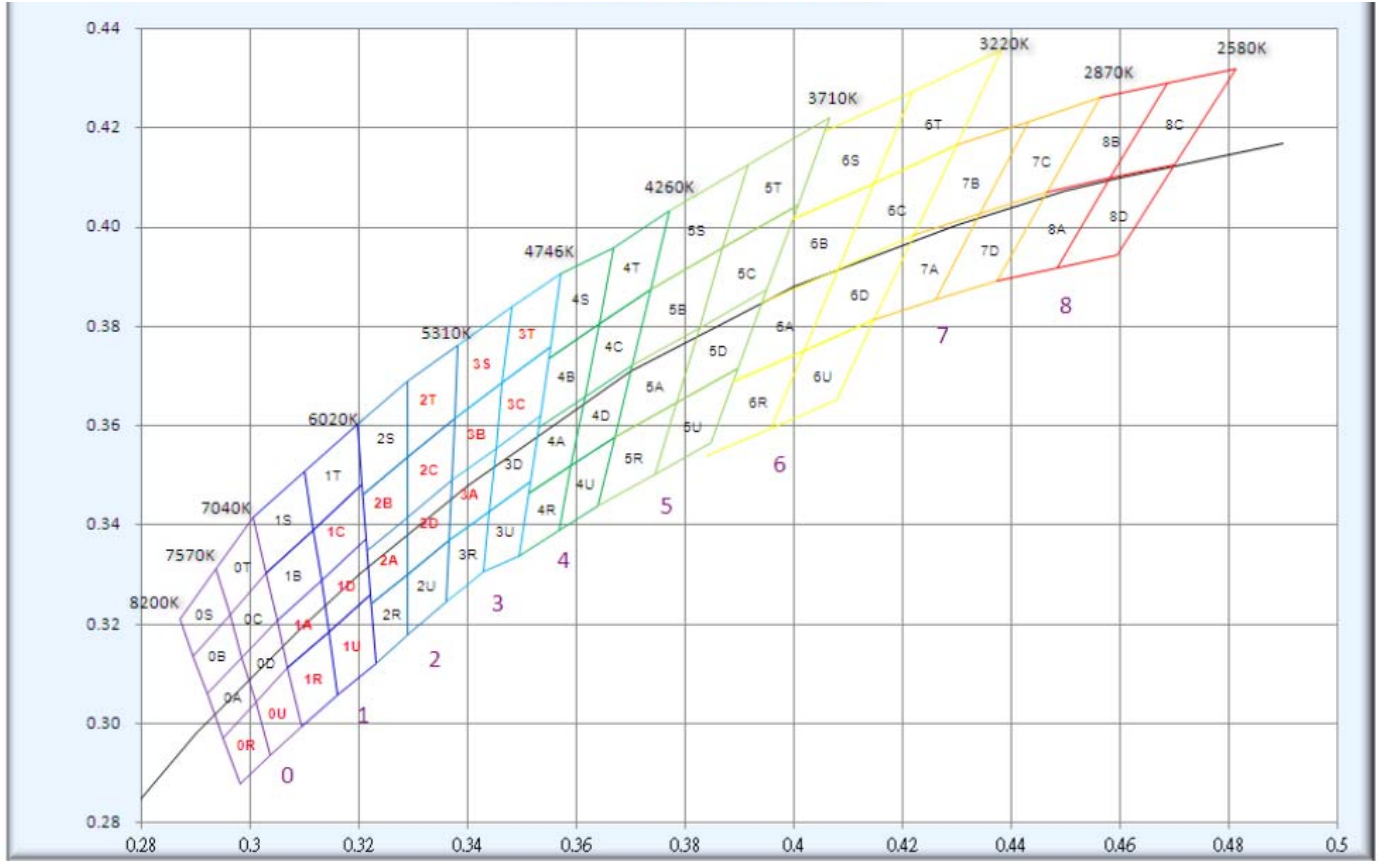
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm(.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.

■ Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Flux	Φ_V	---	120	---	Lm	$I_F=350\text{mA}$
Forward Voltage	V_F	---	3.1	3.5	V	$I_F=350\text{mA}$
Chromaticity Coordinate	X	---	0.329	---	---	$I_F=350\text{mA}$
	Y	---	0.342	---	---	
Color Temperature	CCT	---	5700	---	K	$I_F=350\text{mA}$
Color Render Index	CRI	70	---	---	---	$I_F=350\text{mA}$
Reverse Current	I_R	---	---	5	μA	$V_R=5\text{V}$
Thermal Resistance	R_{th}	---	9	---	$^{\circ}\text{C/W}$	---
LED Junction Temp	T_j	---	---	150	$^{\circ}\text{C}$	---
Emission Angle	$2\theta_{1/2}$	---	120	---	Deg	$I_F=350\text{mA}$

■ Chromaticity Coordinate

LED BINNING



region	x	y	region	x	y	region	x	y	region	x	y
0A	0.2950	0.2970	0B	0.2920	0.3060	0C	0.2984	0.3133	0D	0.2984	0.3133
	0.2920	0.3060		0.2895	0.3135		0.2962	0.3220		0.3048	0.3207
	0.2984	0.3133		0.2962	0.3220		0.3028	0.3304		0.3068	0.3113
	0.3009	0.3042		0.2984	0.3133		0.3048	0.3207		0.3009	0.3042
0R	0.2980	0.2880	0S	0.2895	0.3135	0T	0.2962	0.3220	0U	0.3037	0.2937
	0.2950	0.2970		0.2870	0.3210		0.2937	0.3312		0.3009	0.3042
	0.3009	0.3042		0.2937	0.3312		0.3005	0.3415		0.3068	0.3113
	0.3037	0.2937		0.2962	0.3220		0.3028	0.3304		0.3093	0.2993
1A	0.3048	0.3207	1B	0.3028	0.3304	1C	0.3115	0.3391	1D	0.3130	0.3290
	0.3130	0.3290		0.3115	0.3391		0.3205	0.3481		0.3213	0.3373
	0.3144	0.3186		0.3130	0.3290		0.3213	0.3373		0.3221	0.3261
	0.3068	0.3113		0.3048	0.3207		0.3130	0.3290		0.3144	0.3186

■ Chromaticity Coordinate

1R	0.3068	0.3113	1S	0.3005	0.3415	1T	0.3099	0.3509	1U	0.3144	0.3186
	0.3144	0.3186		0.3099	0.3509		0.3196	0.3602		0.3221	0.3261
	0.3161	0.3059		0.3115	0.3391		0.3205	0.3481		0.3231	0.3120
	0.3093	0.2993		0.3028	0.3304		0.3115	0.3391		0.3161	0.3059
2A	0.3215	0.3350	2B	0.3207	0.3462	2C	0.3290	0.3538	2D	0.3290	0.3417
	0.3290	0.3417		0.3290	0.3538		0.3376	0.3616		0.3371	0.3490
	0.3290	0.3300		0.3290	0.3417		0.3371	0.3490		0.3366	0.3369
	0.3222	0.3243		0.3215	0.3350		0.3290	0.3417		0.3290	0.3300
2R	0.3222	0.3243	2S	0.3196	0.3602	2T	0.3290	0.3690	2U	0.3290	0.3300
	0.3290	0.3300		0.3290	0.3690		0.3381	0.3762		0.3366	0.3369
	0.3290	0.3180		0.3290	0.3538		0.3376	0.3616		0.3361	0.3245
	0.3231	0.3120		0.3207	0.3462		0.3290	0.3538		0.3290	0.3180
3A	0.3371	0.3490	3B	0.3376	0.3616	3C	0.3463	0.3687	3D	0.3451	0.3554
	0.3451	0.3554		0.3463	0.3687		0.3551	0.3760		0.3533	0.3620
	0.3440	0.3427		0.3451	0.3554		0.3533	0.3620		0.3515	0.3487
	0.3366	0.3369		0.3371	0.3490		0.3451	0.3554		0.3440	0.3427
3R	0.3366	0.3369	3S	0.3381	0.3762	3T	0.3480	0.3840	3U	0.3440	0.3428
	0.3440	0.3428		0.3480	0.3840		0.3571	0.3907		0.3515	0.3487
	0.3429	0.3307		0.3463	0.3687		0.3551	0.3760		0.3495	0.3339
	0.3361	0.3245		0.3376	0.3616		0.3463	0.3687		0.3429	0.3307
4A	0.3530	0.3597	4B	0.3548	0.3736	4C	0.3641	0.3804	4D	0.3615	0.3659
	0.3615	0.3659		0.3641	0.3804		0.3736	0.3874		0.3702	0.3722
	0.3590	0.3521		0.3615	0.3659		0.3702	0.3722		0.3670	0.3578
	0.3512	0.3465		0.3530	0.3597		0.3615	0.3659		0.3590	0.3521
4R	0.3512	0.3465	4S	0.3571	0.3907	4T	0.3668	0.3957	4U	0.3590	0.3521
	0.3590	0.3521		0.3668	0.3957		0.3771	0.4034		0.3670	0.3578
	0.3567	0.3389		0.3641	0.3804		0.3736	0.3874		0.3640	0.3440
	0.3495	0.3339		0.3548	0.3736		0.3641	0.3804		0.3567	0.3389

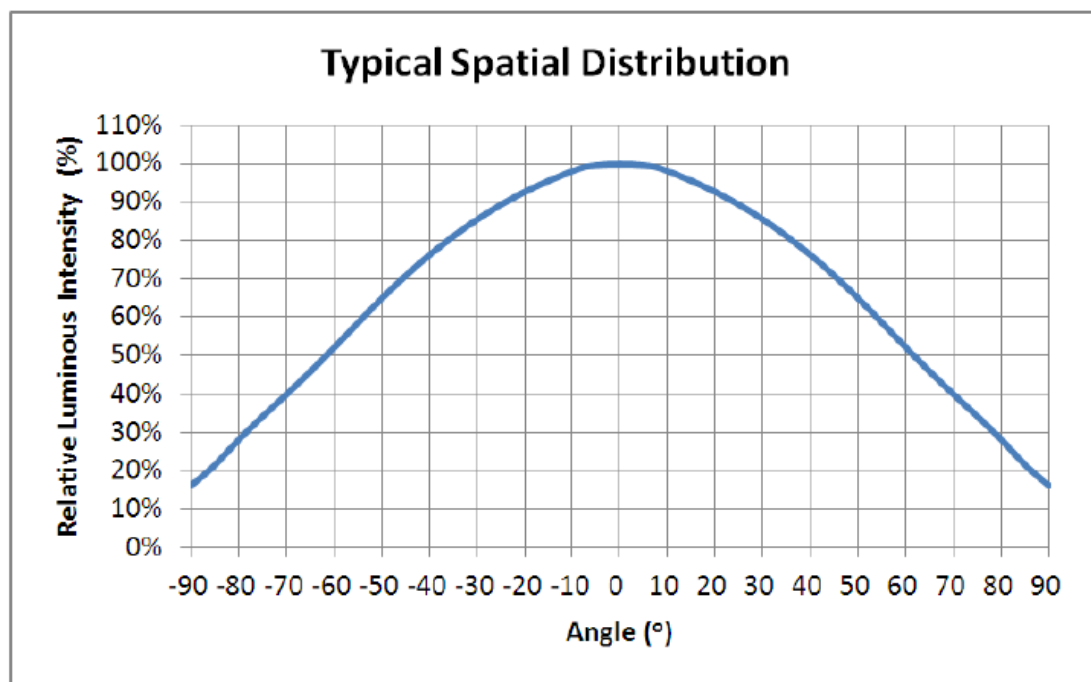
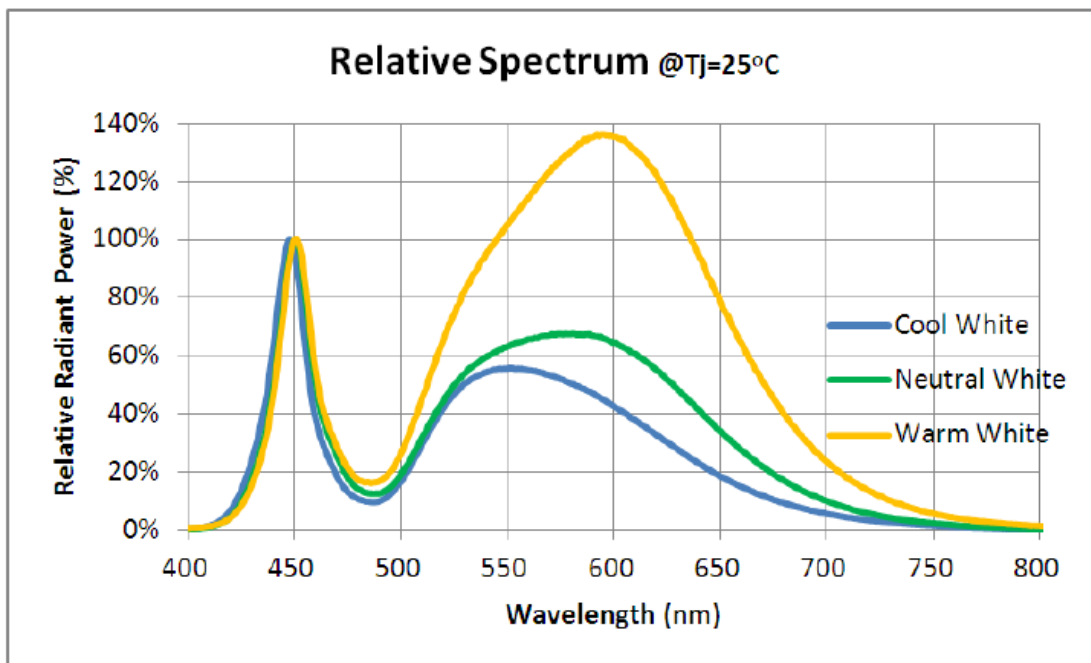
■ Bin Code

CW	Bin Code (Region)									
	0R	1A	1C	1D	2A	2B	2C	3A	3B	3C
	0U	1R	1U		2D	2T		3S	3T	
NW	5A	5B	5C	5D	5R	5S	5T	5U		
WW3000K	7A	7B	7C	7D						
WW2700K	8A	8B	8C	8D						

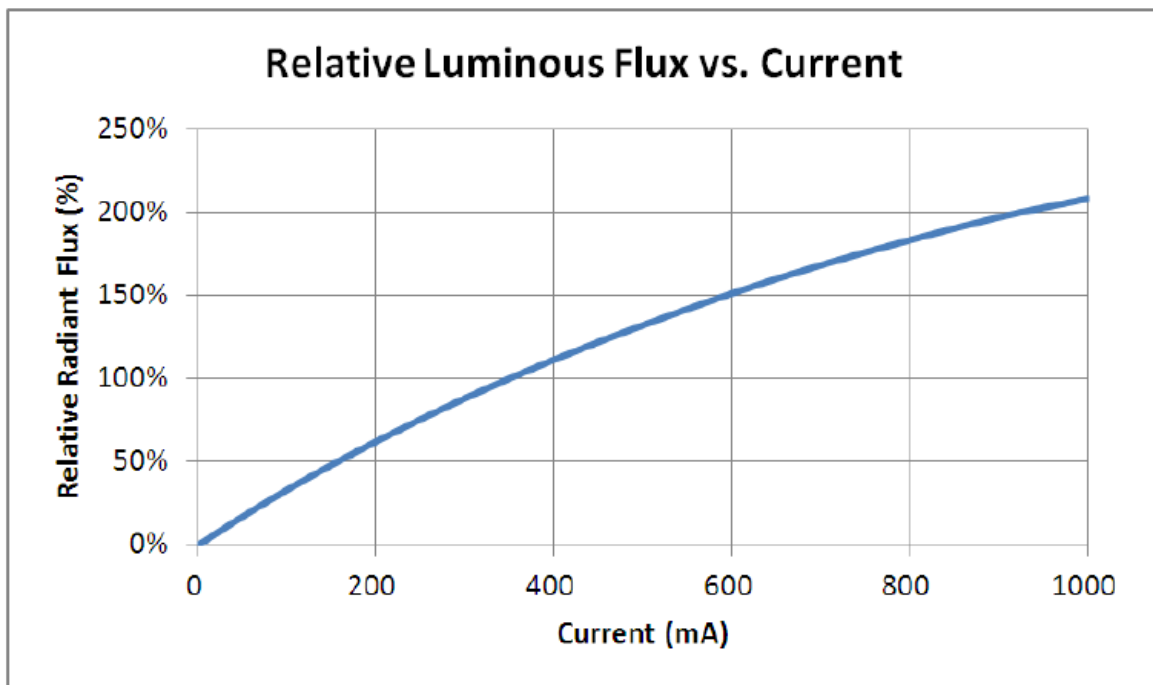
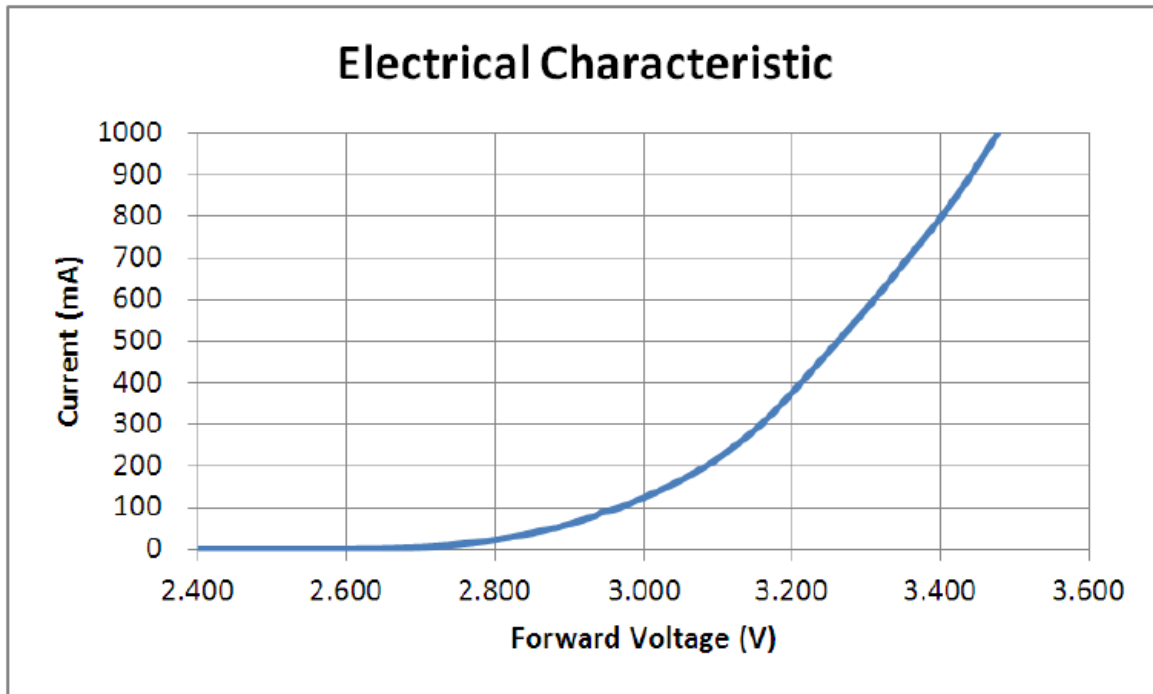
Bin	P4	Q2	Q3	Q4	Q5	R2	R3	R4	R5
Flux(lm) @350 mA	80.6	87.4	93.9	100	107	114	122	130	139
Flux(lm) @700 mA	143	155	167	178	190	203	217	231	247
Flux(lm) @1000 mA	185	201	216	230	246	262	281	299	320

Bin	0F	0G	0H						
Vf(v)	2.75-3.00	3.00-3.25	3.25-3.50						
CW Bin				Q4	Q5	R2	R3	R4	R5
Flux(lm)				100-107	107-114	114-122	122-130	130-139	139-148
NW Bin			Q3	Q4	Q5	R2			
Flux(lm)			93.9-100	100-107	107-114	114-122			
WW Bin	P4	Q2	Q3	Q4	Q5				
Flux(lm)	80.6-87.4	87.4-93.9	93.9-100	100-107	107-114				

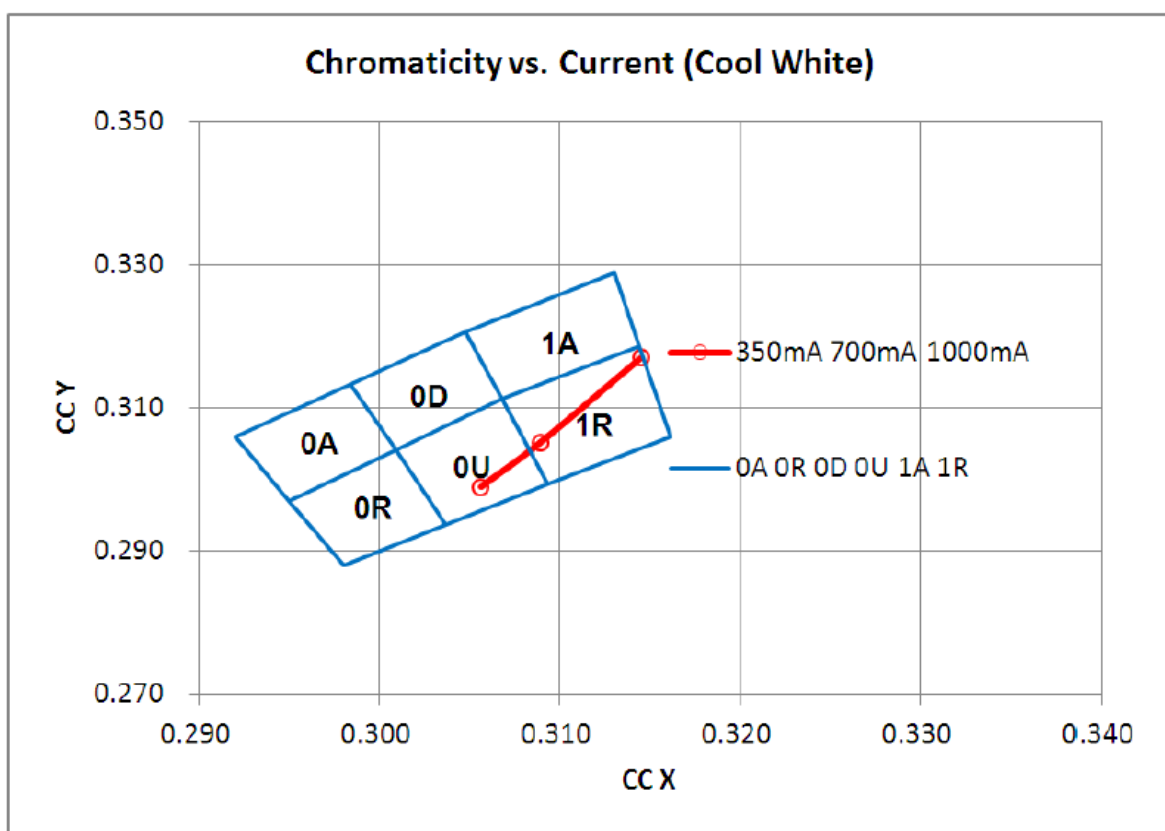
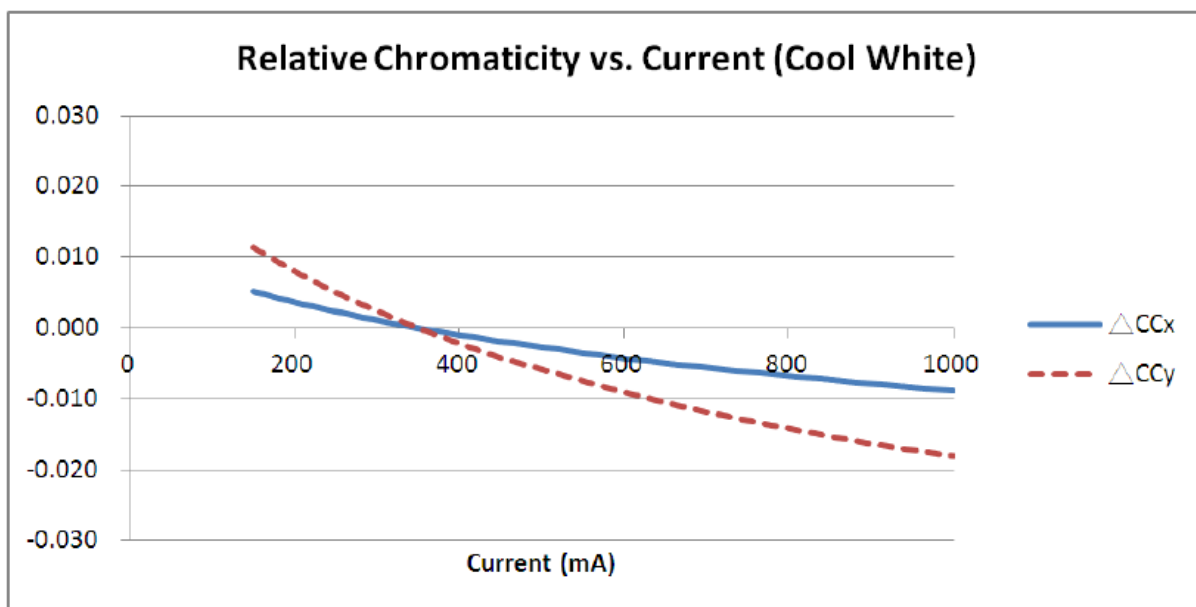
■ **Optical Characteristics**



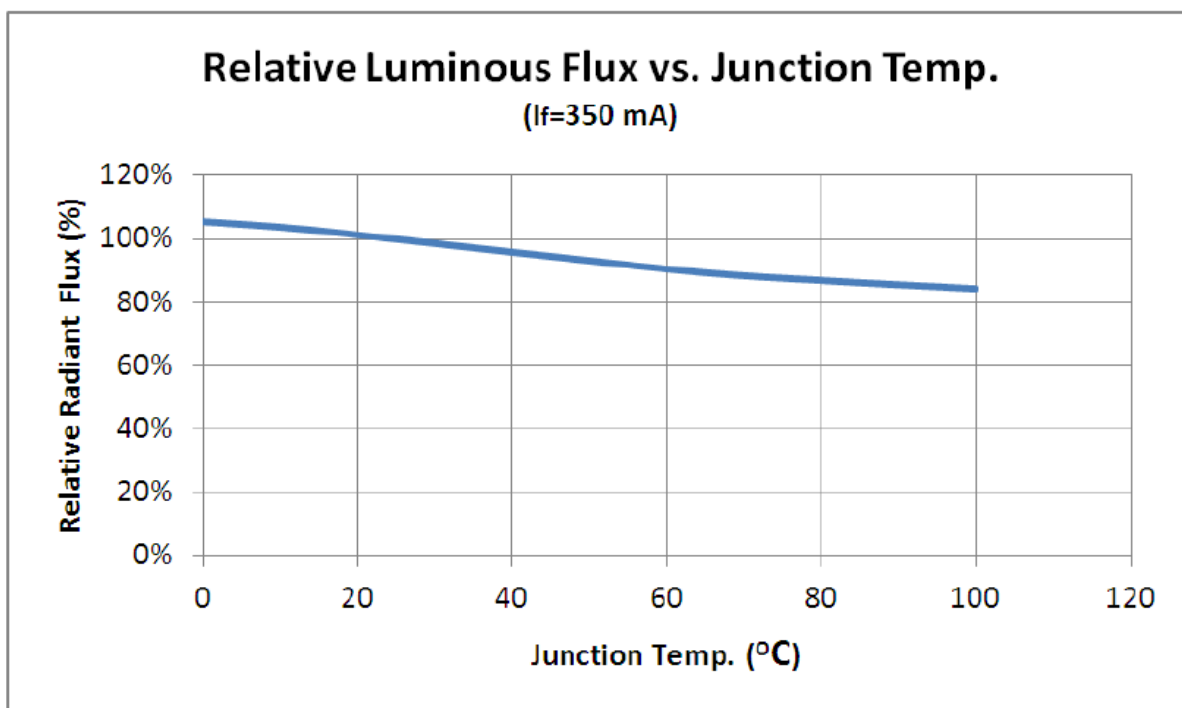
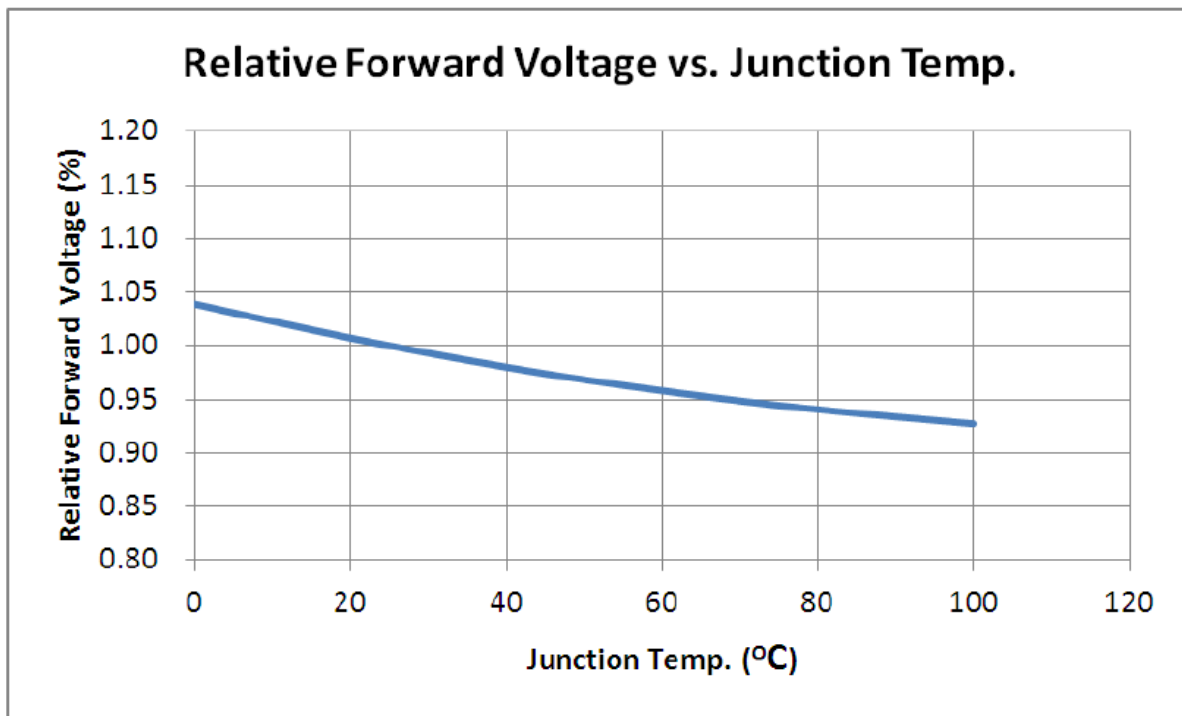
■ **Optical Characteristics**



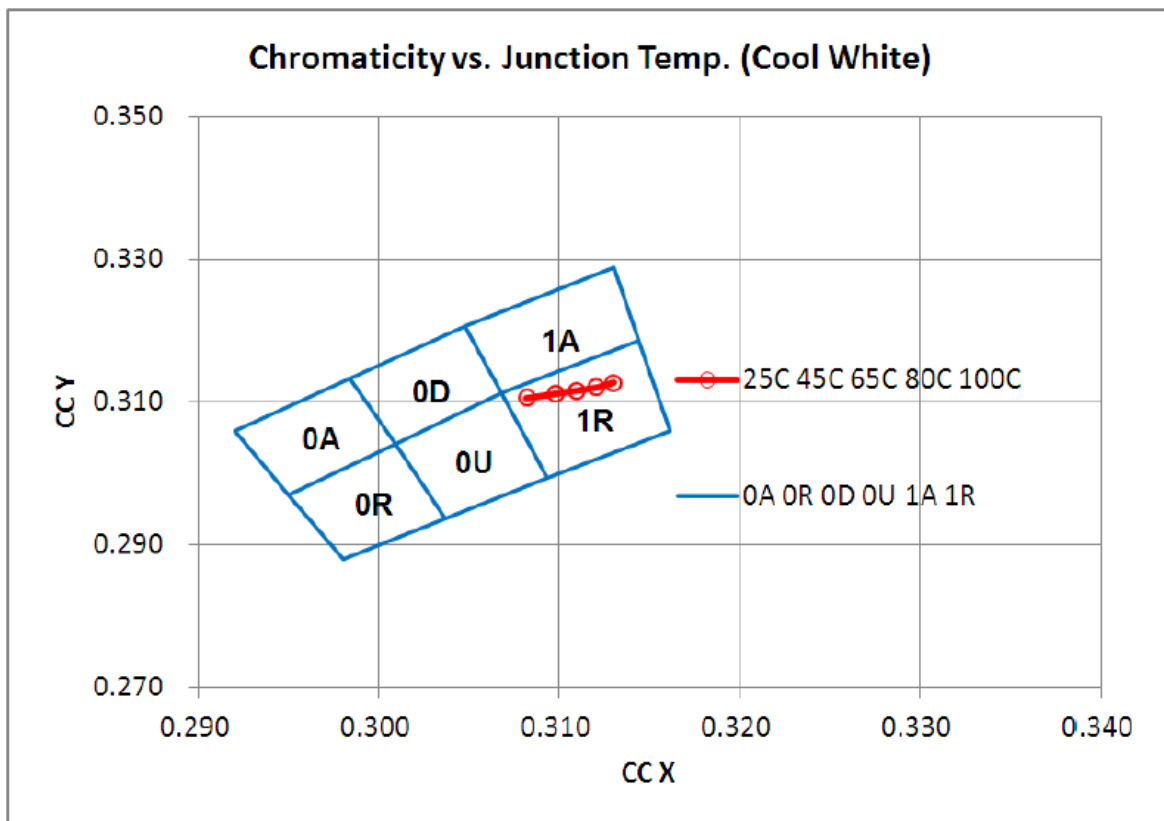
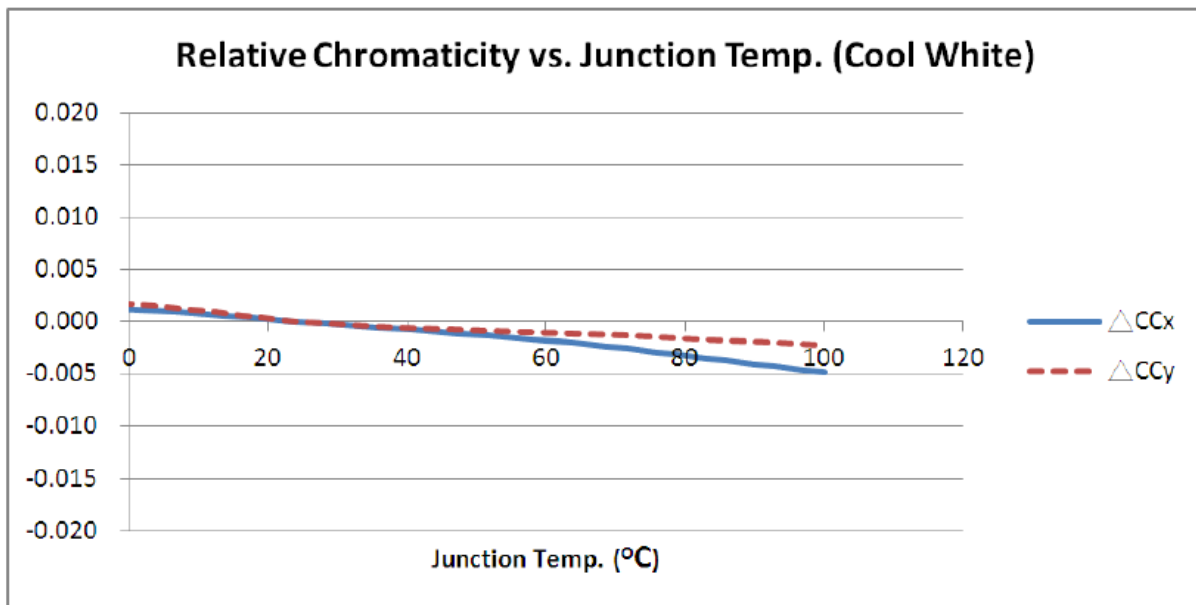
■ **Optical Characteristics**



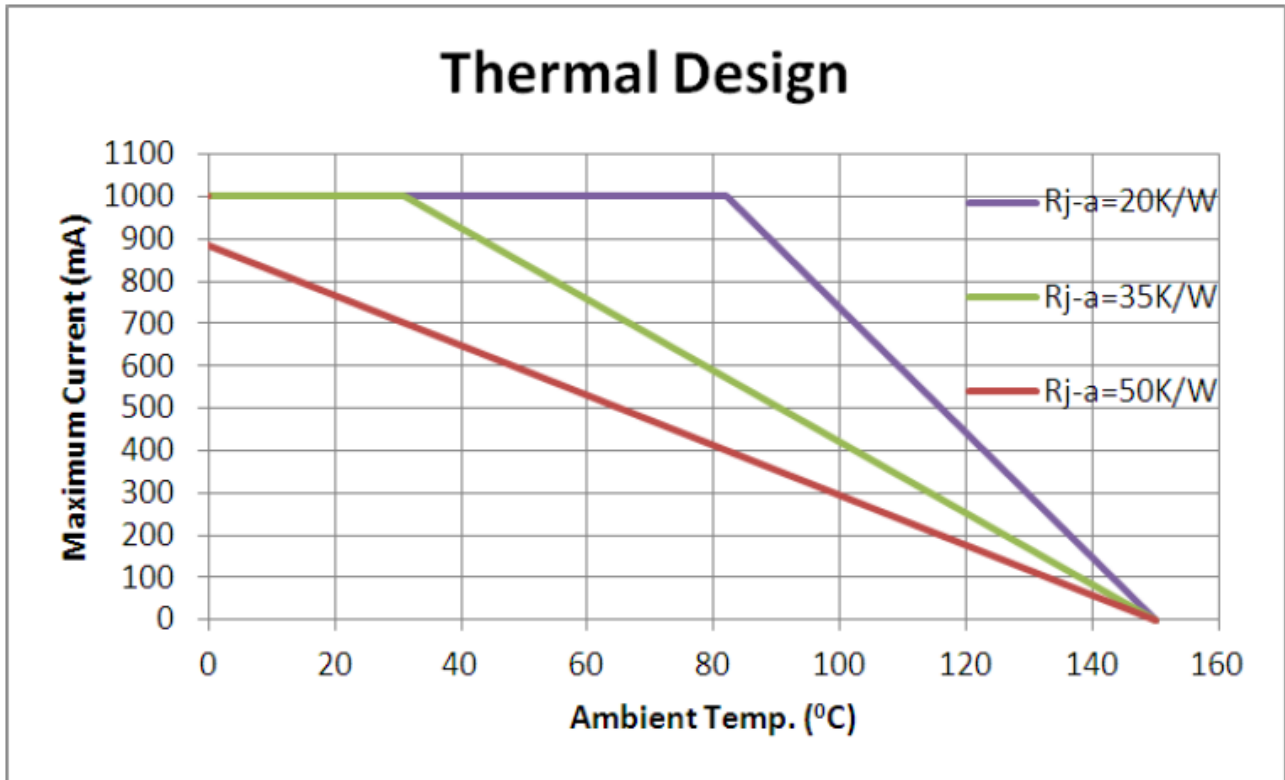
■ **Optical Characteristics**



■ **Optical Characteristics**



■ **Optical Characteristics**



■ Test item and Results of reliability

Test Item	Test Conditions	Duration/ Cycle	Number of Damage	Reference
Temperature Cycle	-40°C 30min ↑↓25°C (5 min) 100°C 30min	100 cycles	0/22	JEITA ED-4701 300 303
Thermal Shock	-40°C 30min ↑↓5sec 110°C 30min	100 cycles	0/22	JEITA ED-4701 200 303
High Temperature Storage	T _a =85°C	1000 hrs	0/22	EIAJED-4701 200 201
Humidity Heat Storage	T _a =85°C RH=85%	1000 hrs	0/22	EIAJED-4701 100 103
Low Temperature Storage	T _a =-40°C	1000 hrs	0/22	EIAJED-4701 200 202
Life Test	T _a =25°C I _f =1000mA	1000 hrs	0/22	Tested with Optotech standard
High Humidity Heat Life Test	60°C RH=90% I _f =700mA	1000 hrs	0/22	Tested with Optotech standard
Low Temperature Life Test	T _a =-40°C I _f =1000mA	1000 hrs	0/22	Tested with Optotech standard
ESD(HBM)	1kV at 1.5kΩ;100pf	3 Times	0/22	MIL-STD-883D

■ Packaging 800pcs/Reel

Tape and Reel

