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Superior high Flux for High Voltage System

Acrich MJT – 5630 Series

SAW8KG0B (Cool, Neutral, Warm)



Product Brief

Description

- This surface-mount LED comes in standard package dimension.
Package Size : 5.6x 3.0x 0.75mm
- It has a substrate made up of a molded plastic reflector sitting on top of a bent lead frame.
- The die is attached within the reflector cavity and the cavity is encapsulated by silicone.
- The package design coupled with careful selection of component materials allow these products to perform with high reliability.

Features and Benefits

- White colored SMT package.
- Pb-free Reflow Soldering
- Suitable for all SMT
- Lead Free and RoHS compliant

Key Applications

- Interior lighting
- General lighting
- Indoor and out door displays
- Architectural / Decorative lighting

Table 1. Product Selection Table

Part Number	CCT			
	Color	Min.	Typ.	Max.
SAW8KG0B	Cool White	4700K	5600K	7000K
SAW8KG0B	Neutral White	3700K	4200K	4700K
SAW8KG0B	Warm White	2600K	3000K	3700K

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Performance Characteristics

Table 2. Electro Optical Characteristics, $I_F=20mA$, $T_j = 25^\circ C$, RH30%

Part Number	CCT (K) ^[1]	RANK	Luminous Intensity ^[2]		Luminous Flux ^[3]		CRI
	Typ.		I_V (cd)		Φ_V (lm)		R_a
			Min	Max	Min	Max	Min.
SAW8KG0B	7000~4700	X8	14.8	16.1	45.9	49.9	80
		Y1	16.1	17.4	49.9	53.9	80
		Z4	17.4	19.0	53.9	58.9	80
		J0	19.0	20.3	58.9	62.9	80
		K3	20.3	21.6	62.9	67.0	80
	4700~3700	X8	14.8	16.1	45.1	49.1	80
		Y1	16.1	17.4	49.1	53.1	80
		Z4	17.4	19.0	53.1	58.0	80
		J0	19.0	20.3	58.0	61.9	80
		K3	20.3	21.6	61.9	65.9	80
	3700~2600	W5	13.5	14.8	40.5	44.4	80
		X8	14.8	16.1	44.4	48.3	80
		Y1	16.1	17.4	48.3	52.2	80
		Z4	17.4	19.0	52.2	57.0	80
		J0	19.0	20.3	57.0	60.9	80

Notes :

(1) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.

Color coordinate : ± 0.007

(2) Seoul Semiconductor maintains a tolerance of $\pm 7\%$ on Intensity and power measurements.

The luminous intensity I_V was measured at the peak of the spatial pattern which may not be aligned with the mechanical axis of the LED package.

(3) Calculated performance values are for reference only.

Performance Characteristics

Table 3. Characteristics, $I_F=20\text{mA}$, $T_j = 25^\circ\text{C}$, RH30%

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Forward Current	I_F	-	20	25	mA
Forward Voltage*	V_F	20.7	22	23	V
Reverse Voltage	$V_R (I_R=10\text{mA})$	0.7	-	-	V
Luminous Intensity* ^[1] (3700~7000K)	I_v	-	19.0 (58.0)	-	cd (lm)
Luminous Intensity* ^[1] (2600~3700K)	I_v	-	17.5 (52.5)	-	
Color Rendering Index*	Ra	80	82	90	-
Viewing Angle ^[2]	$2\theta_{1/2}$	-	115	-	deg.
Power Dissipation ** ^[4]	P_d	-	-	0.58	W
Junction Temperature	T_j	-	-	125	$^\circ\text{C}$
Operating Temperature	T_{opr}	- 40	-	+ 85	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 40	-	+ 100	$^\circ\text{C}$
Thermal resistance ^[3]	$R\theta_{J-S}$	-	27	-	K/W
ESD Sensitivity(HBM)	-	5	-	-	KV

Notes :

- (1) The luminous intensity I_V was measured at the peak of the spatial pattern which may not be aligned with the mechanical axis of the LED package.
- (2) $2\theta_{1/2}$ is the off-axis where the luminous intensity is 1/2 of the peak intensity.
- (3) Thermal resistance: R_{thJS} (Junction / solder)

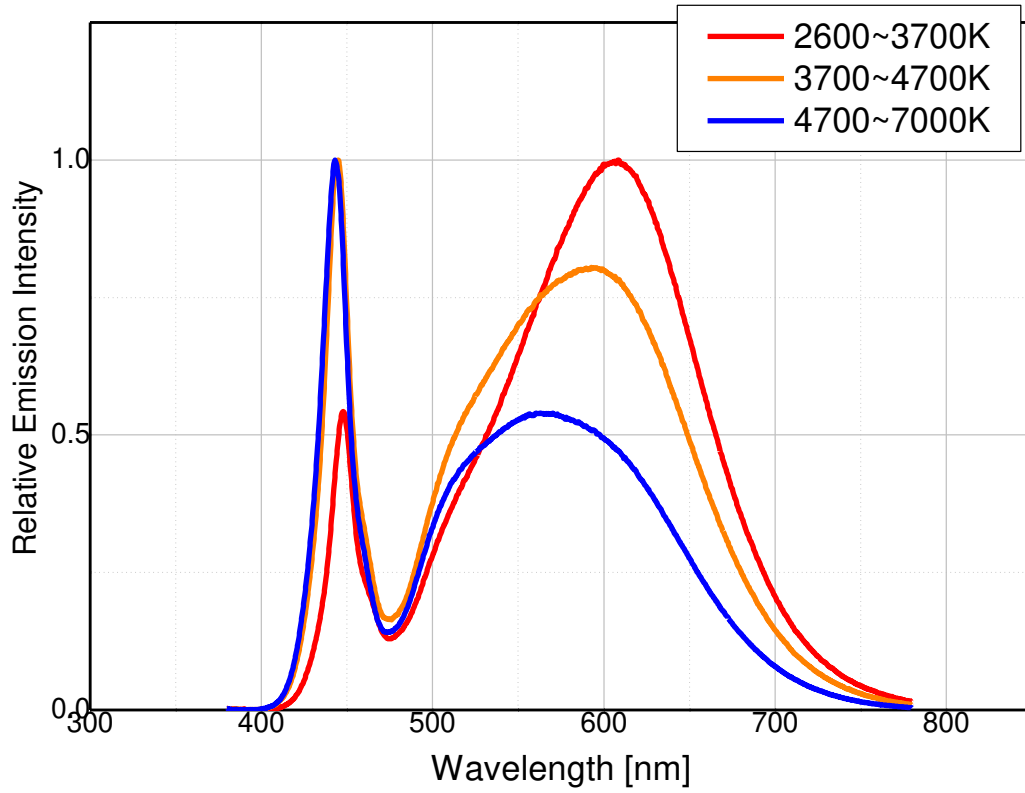
* Tolerance : $V_F : \pm 0.4\text{V}$, $I_V : \pm 7\%$, $R_a : \pm 2$, $x, y : \pm 0.007$

- (4) Care is to be taken that power dissipation does not exceed the absolute maximum rating of the product.

** LED's properties might be different from suggested values like above and below tables if operation condition will be exceeded our parameter range.

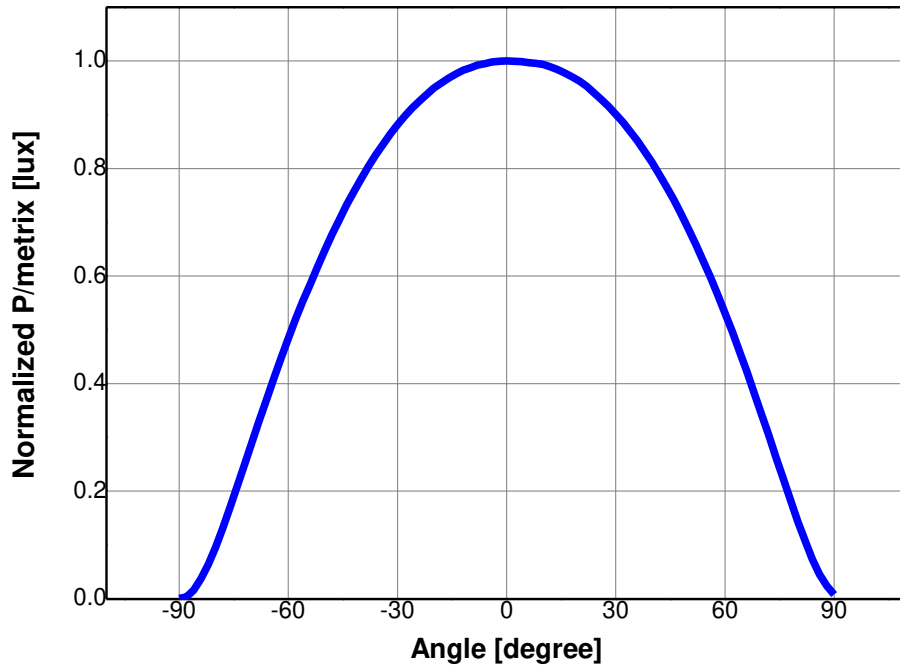
Characteristics Graph

Fig 1. Color Spectrum, $I_F=20\text{mA}$, $T_j=25^\circ\text{C}$, RH30%

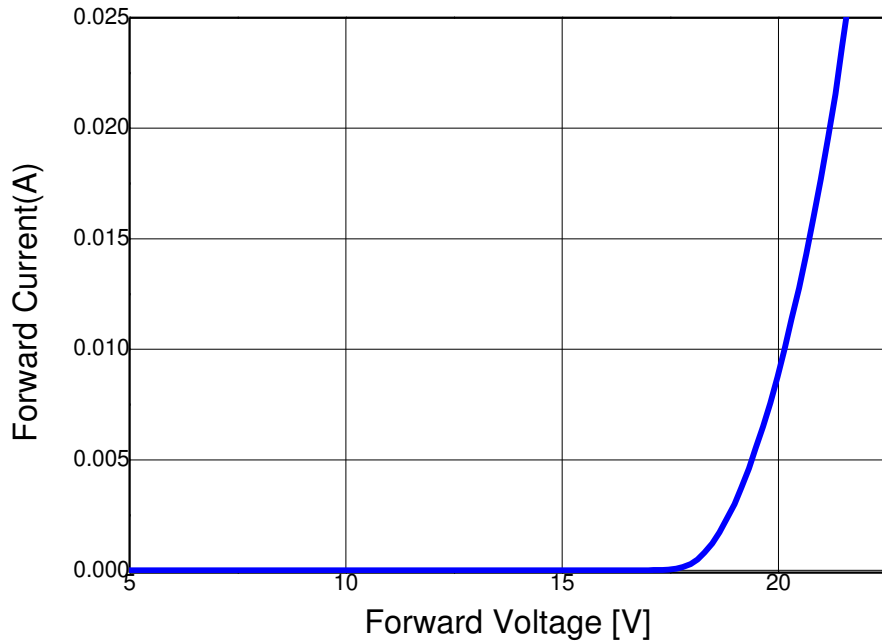
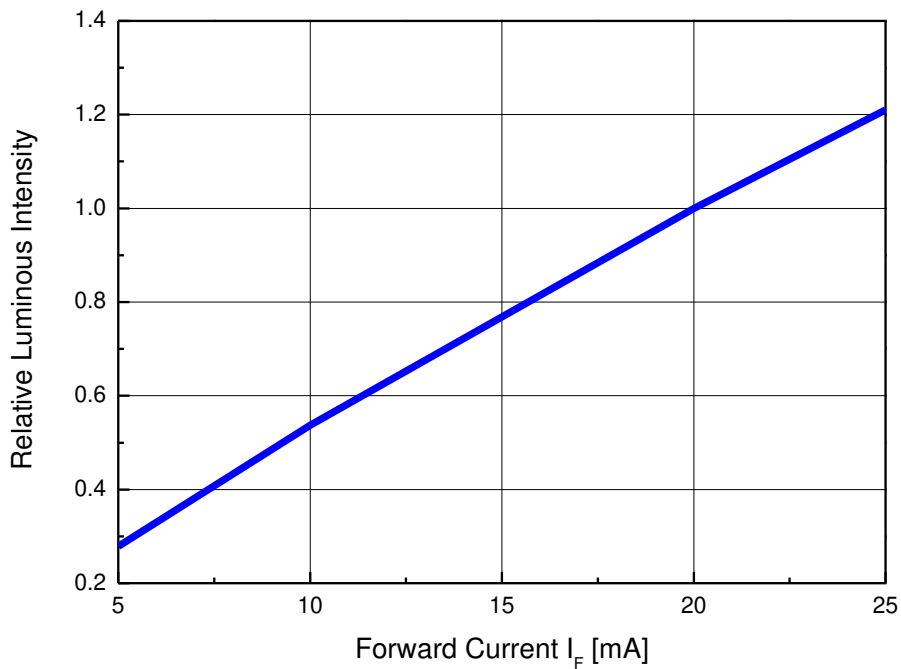


Characteristics Graph

Fig 2. Radiant pattern, $I_F = 20\text{mA}$

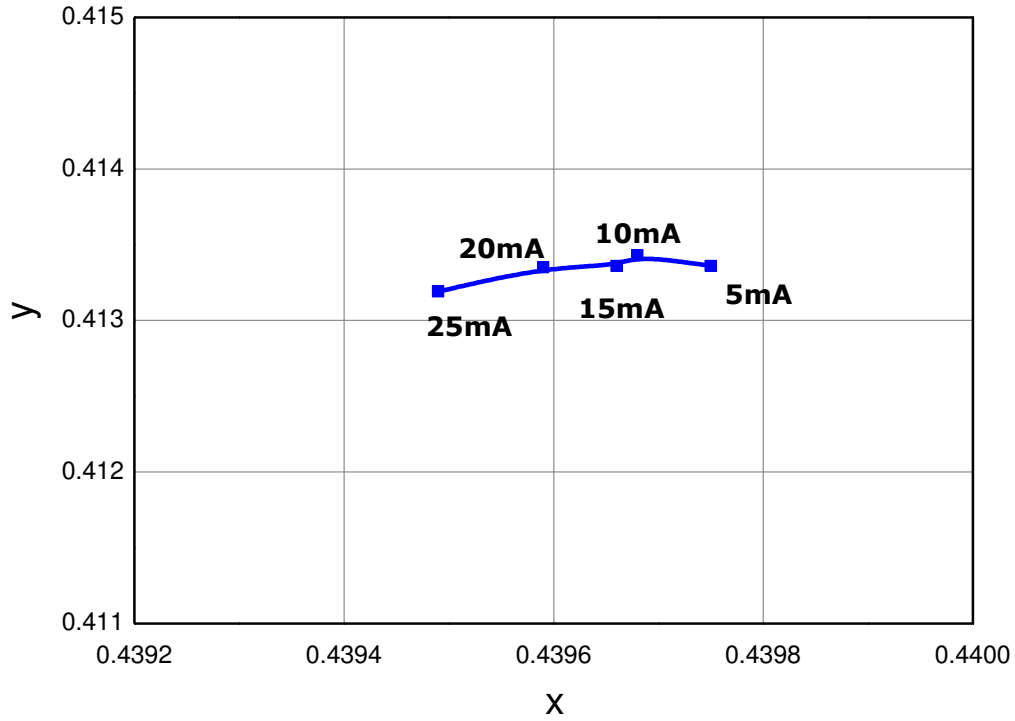


Characteristics Graph

Fig 3. Forward Voltage vs. Forward Current, $T_j=25^\circ\text{C}$

Fig 4. Forward Current vs. Relative Luminous Intensity, $T_j=25^\circ\text{C}$


Characteristics Graph

Fig 5. Forward Current vs. CIE X, Y Shift , $T_j = -25^\circ\text{C}$



Characteristics Graph

Fig 6. Relative Forward Voltage vs. Junction Temperature, $I_F=20mA$

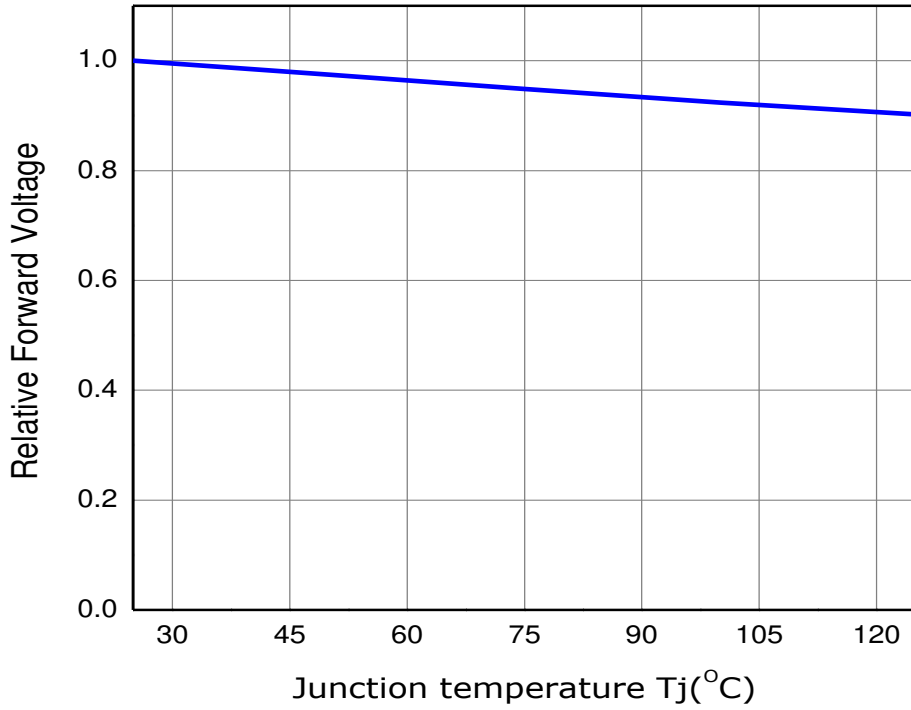
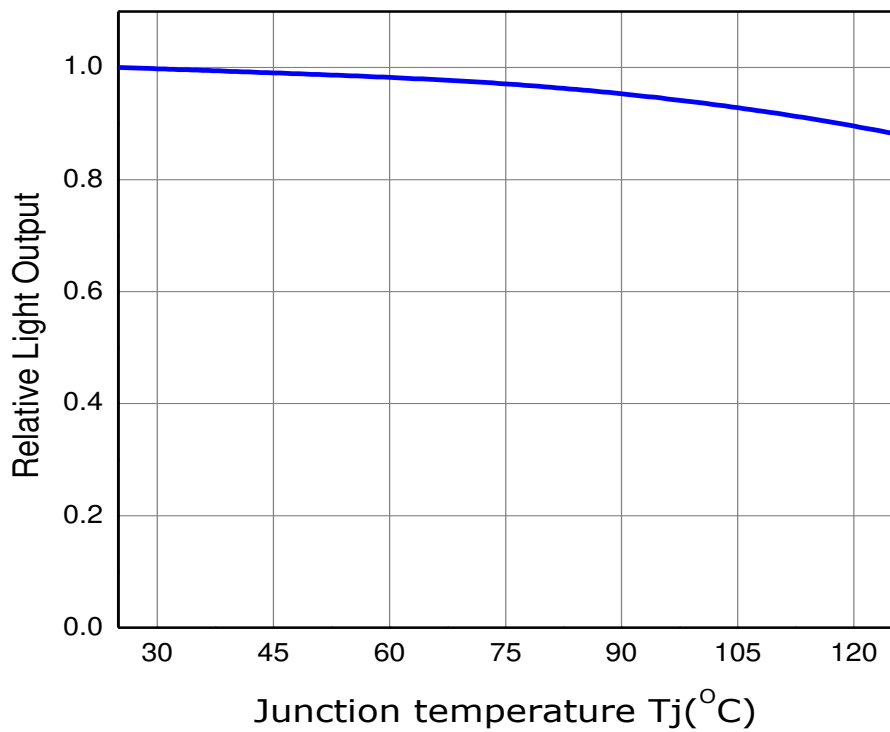
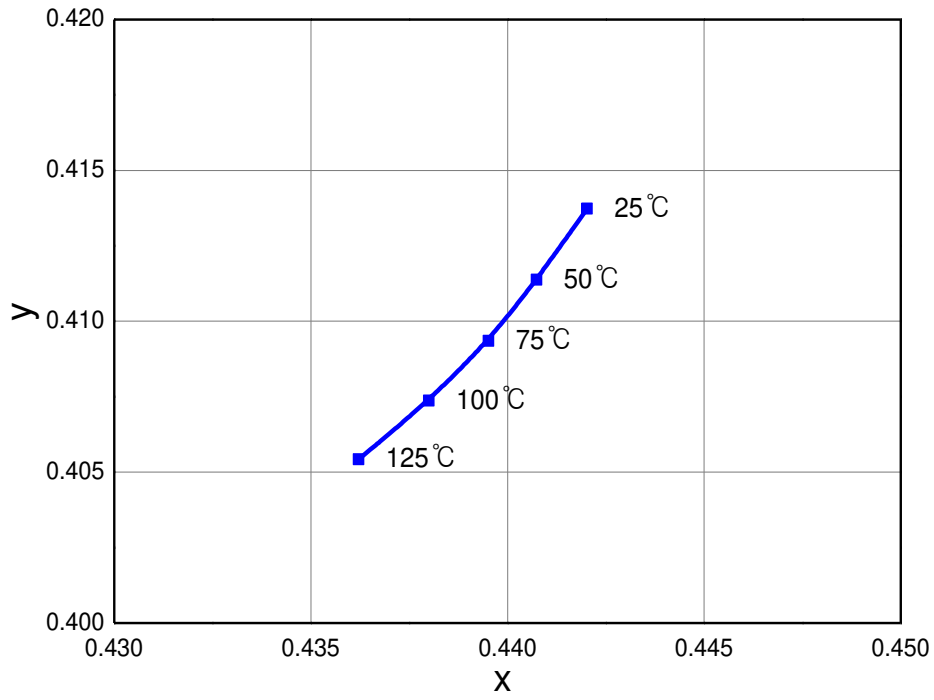


Fig 7. Relative Light Output vs. Junction Temperature, $I_F=20mA$



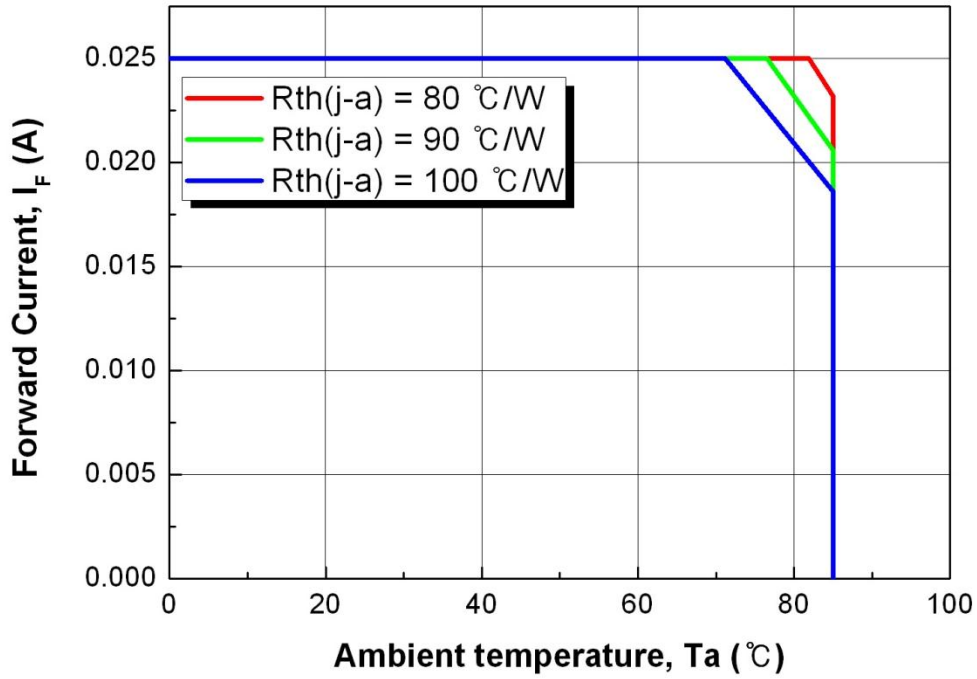
Characteristics Graph

Fig 8. Chromaticity Coordinate vs. Junction Temperature, $I_F=20\text{mA}$



Characteristics Graph

Fig 9. Maximum Forward Current vs. Ambient Temperature, $T_j(\text{max.}) = 125^\circ\text{C}$, $I_F=25\text{mA}$



Color Bin Structure

Table 4. Bin Code description

Part Number	Luminous Intensity I_v (cd) @ $I_F=20mA$			Color Chromaticity Coordinate @ $I_F=20mA$	Typical Forward Voltage (V_f) @ $I_F=20mA$		
	Bin Code	Min.	Max.		Bin Code	Min.	Max.
SAW8KG0B	W5	13.5	14.8	Refer to page.15	A	20.7	21.5
	X8	14.8	16.1		B	21.5	22.2
	Y1	16.1	17.4		C	22.2	23.0
	Z4	17.4	19.0				
	J0	19.0	20.3				
	K3	20.3	21.6				

Table 5. Intensity rank distribution

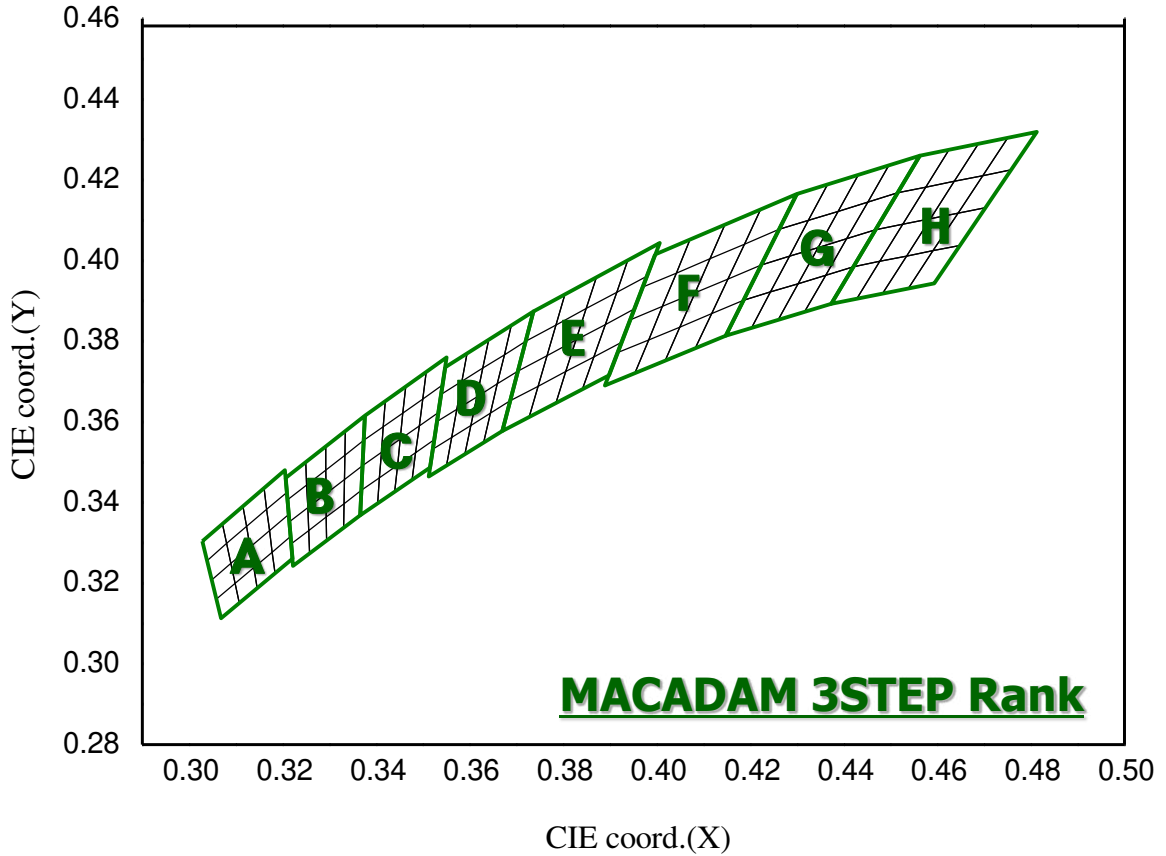
CCT	CIE	IV Rank				
6000 ~ 7000K	A	X8	Y1	Z4	J0	K3
5300 ~ 6000K	B	X8	Y1	Z4	J0	K3
4700 ~ 5300K	C	X8	Y1	Z4	J0	K3
4200 ~ 4700K	D	X8	Y1	Z4	J0	K3
3700 ~ 4200K	E	X8	Y1	Z4	J0	K3
3200 ~ 3700K	F	W5	X8	Y1	Z4	J0
2900 ~ 3200K	G	W5	X8	Y1	Z4	J0
2600 ~ 2900K	H	W5	X8	Y1	Z4	J0

Notes :

- (1) All measurements were made under the standardized environment of Seoul Semiconductor
 In order to ensure availability, single color rank will not be orderable.

Color Bin Structure

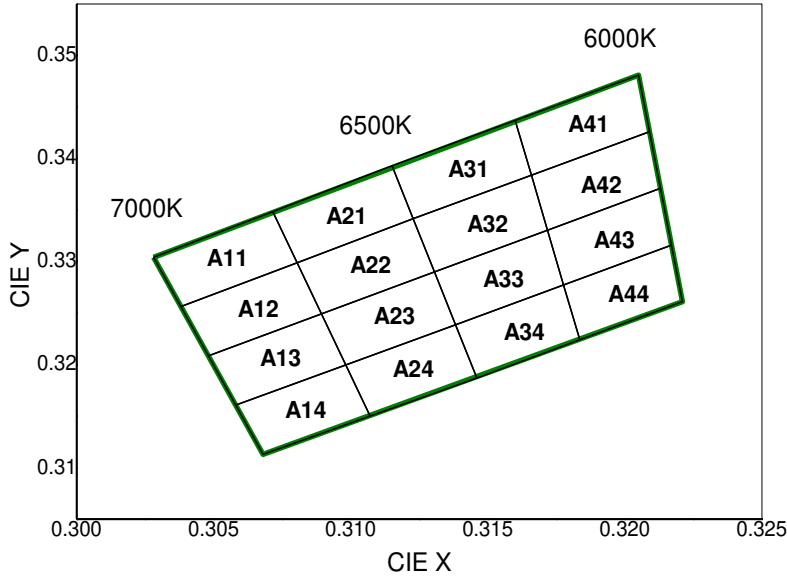
CIE Chromaticity Diagram, $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$



Notes :

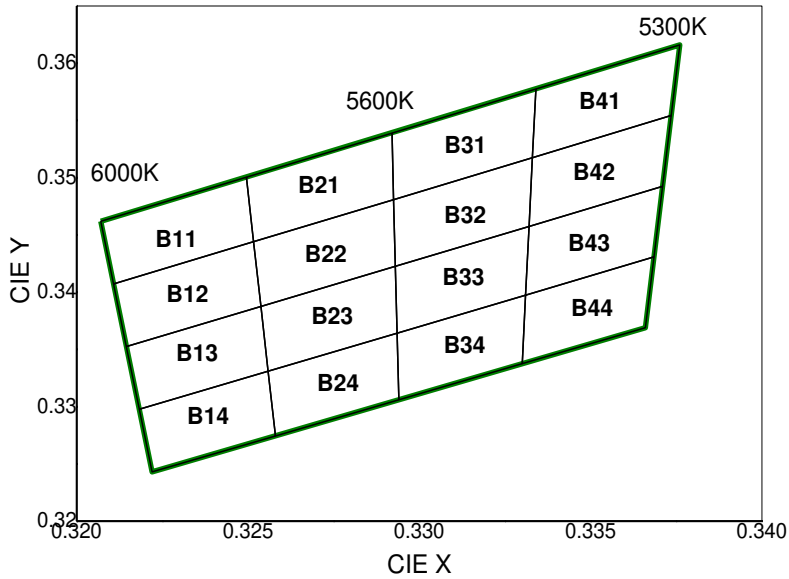
- (1) Energy Star binning applied to all 2600~7000K.
- (2) Measurement Uncertainty of the Color Coordinates : ± 0.007

Color Bin Structure

CIE Chromaticity Diagram (Cool White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


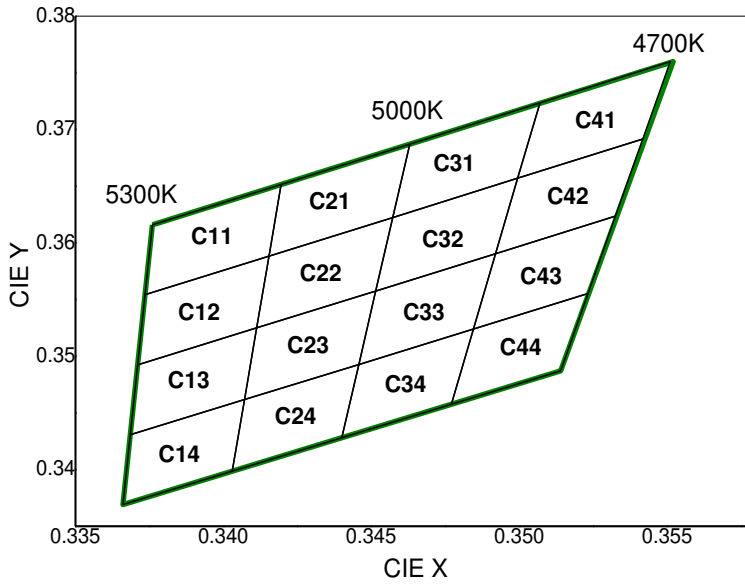
A11		A21		A31		A41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3028	0.3304	0.3072	0.3349	0.3115	0.3393	0.3160	0.3437
0.3038	0.3256	0.3080	0.3299	0.3123	0.3342	0.3166	0.3384
0.3080	0.3299	0.3123	0.3342	0.3166	0.3384	0.3209	0.3426
0.3072	0.3349	0.3115	0.3393	0.3160	0.3437	0.3205	0.3481
A12		A22		A32		A42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3038	0.3256	0.3080	0.3299	0.3123	0.3342	0.3166	0.3384
0.3048	0.3209	0.3089	0.3249	0.3131	0.3290	0.3172	0.3331
0.3089	0.3249	0.3131	0.3290	0.3172	0.3331	0.3213	0.3371
0.3080	0.3299	0.3123	0.3342	0.3166	0.3384	0.3209	0.3426
A13		A23		A33		A43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3048	0.3209	0.3089	0.3249	0.3131	0.3290	0.3172	0.3331
0.3058	0.3161	0.3098	0.3200	0.3138	0.3239	0.3178	0.3277
0.3098	0.3200	0.3138	0.3239	0.3178	0.3277	0.3217	0.3316
0.3089	0.3249	0.3131	0.3290	0.3172	0.3331	0.3213	0.3371
A14		A24		A34		A44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3058	0.3161	0.3098	0.3200	0.3138	0.3239	0.3178	0.3277
0.3068	0.3113	0.3107	0.3150	0.3146	0.3187	0.3184	0.3224
0.3107	0.3150	0.3146	0.3187	0.3184	0.3224	0.3221	0.3261
0.3098	0.3200	0.3138	0.3239	0.3178	0.3277	0.3217	0.3316

Color Bin Structure

CIE Chromaticity Diagram (Cool White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


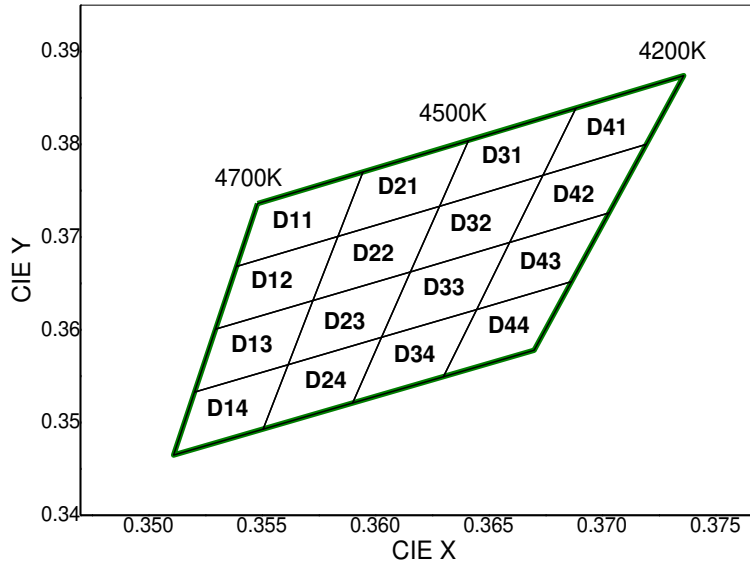
B11		B21		B31		B41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3207	0.3462	0.3250	0.3501	0.3292	0.3539	0.3334	0.3578
0.3211	0.3407	0.3252	0.3444	0.3293	0.3481	0.3333	0.3518
0.3252	0.3444	0.3293	0.3481	0.3333	0.3518	0.3374	0.3554
0.3250	0.3501	0.3292	0.3539	0.3334	0.3578	0.3376	0.3616
B12		B22		B32		B42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3211	0.3407	0.3252	0.3444	0.3293	0.3481	0.3333	0.3518
0.3215	0.3353	0.3254	0.3388	0.3293	0.3423	0.3332	0.3458
0.3254	0.3388	0.3293	0.3423	0.3332	0.3458	0.3371	0.3493
0.3252	0.3444	0.3293	0.3481	0.3333	0.3518	0.3374	0.3554
B13		B23		B33		B43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3215	0.3353	0.3254	0.3388	0.3293	0.3423	0.3332	0.3458
0.3218	0.3298	0.3256	0.3331	0.3294	0.3364	0.3331	0.3398
0.3256	0.3331	0.3294	0.3364	0.3331	0.3398	0.3369	0.3431
0.3254	0.3388	0.3293	0.3423	0.3332	0.3458	0.3371	0.3493
B14		B24		B34		B44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3218	0.3298	0.3256	0.3331	0.3294	0.3364	0.3331	0.3398
0.3222	0.3243	0.3258	0.3275	0.3294	0.3306	0.3330	0.3338
0.3258	0.3275	0.3294	0.3306	0.3330	0.3338	0.3366	0.3369
0.3256	0.3331	0.3294	0.3364	0.3331	0.3398	0.3369	0.3431

Color Bin Structure

CIE Chromaticity Diagram (Cool White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


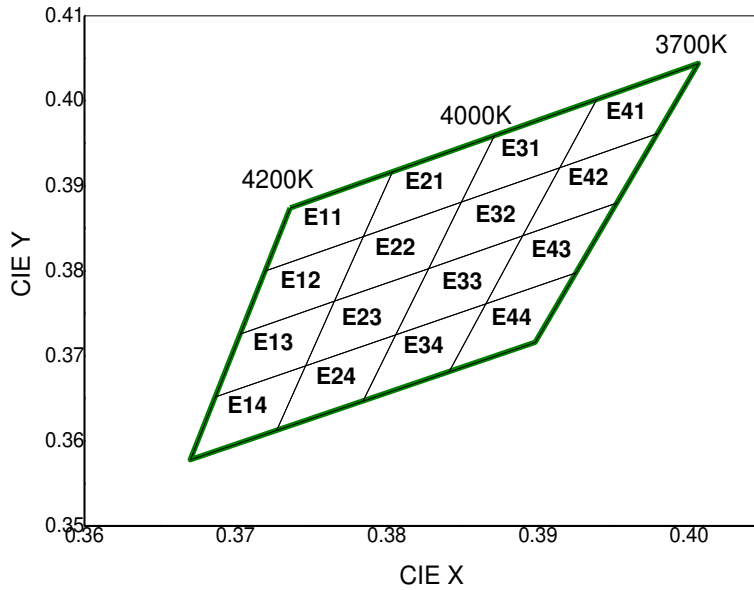
C11		C21		C31		C41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3376	0.3616	0.3420	0.3652	0.3463	0.3687	0.3507	0.3724
0.3374	0.3554	0.3415	0.3588	0.3457	0.3622	0.3500	0.3657
0.3415	0.3588	0.3457	0.3622	0.3500	0.3657	0.3542	0.3692
0.3420	0.3652	0.3463	0.3687	0.3507	0.3724	0.3551	0.3760
C12		C22		C32		C42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3374	0.3554	0.3415	0.3588	0.3457	0.3622	0.3500	0.3657
0.3371	0.3493	0.3411	0.3525	0.3452	0.3558	0.3492	0.3591
0.3411	0.3525	0.3452	0.3558	0.3492	0.3591	0.3533	0.3624
0.3415	0.3588	0.3457	0.3622	0.3500	0.3657	0.3542	0.3692
C13		C23		C33		C43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3371	0.3493	0.3411	0.3525	0.3452	0.3558	0.3492	0.3591
0.3369	0.3431	0.3407	0.3462	0.3446	0.3493	0.3485	0.3524
0.3407	0.3462	0.3446	0.3493	0.3485	0.3524	0.3523	0.3555
0.3411	0.3525	0.3452	0.3558	0.3492	0.3591	0.3533	0.3624
C14		C24		C34		C44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3369	0.3431	0.3407	0.3462	0.3446	0.3493	0.3485	0.3524
0.3366	0.3369	0.3403	0.3399	0.3440	0.3428	0.3477	0.3458
0.3403	0.3399	0.3440	0.3428	0.3477	0.3458	0.3514	0.3487
0.3407	0.3462	0.3446	0.3493	0.3485	0.3524	0.3523	0.3555

Color Bin Structure

CIE Chromaticity Diagram (Neutral White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


D11		D21		D31		D41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3548	0.3736	0.3595	0.3770	0.3641	0.3804	0.3689	0.3839
0.3539	0.3668	0.3584	0.3701	0.3628	0.3733	0.3674	0.3767
0.3584	0.3701	0.3628	0.3733	0.3674	0.3767	0.3720	0.3800
0.3595	0.3770	0.3641	0.3804	0.3689	0.3839	0.3736	0.3874
D12		D22		D32		D42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3539	0.3668	0.3584	0.3701	0.3628	0.3733	0.3674	0.3767
0.3530	0.3601	0.3573	0.3632	0.3616	0.3663	0.3659	0.3694
0.3573	0.3632	0.3616	0.3663	0.3659	0.3694	0.3703	0.3726
0.3584	0.3701	0.3628	0.3733	0.3674	0.3767	0.3720	0.3800
D13		D23		D33		D43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3530	0.3601	0.3573	0.3632	0.3616	0.3663	0.3659	0.3694
0.3520	0.3533	0.3562	0.3562	0.3603	0.3592	0.3645	0.3622
0.3562	0.3562	0.3603	0.3592	0.3645	0.3622	0.3687	0.3652
0.3573	0.3632	0.3616	0.3663	0.3659	0.3694	0.3703	0.3726
D14		D24		D34		D44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3520	0.3533	0.3562	0.3562	0.3603	0.3592	0.3645	0.3622
0.3511	0.3465	0.3551	0.3493	0.3590	0.3521	0.3630	0.3550
0.3551	0.3493	0.3590	0.3521	0.3630	0.3550	0.3670	0.3578
0.3562	0.3562	0.3603	0.3592	0.3645	0.3622	0.3687	0.3652

Color Bin Structure

CIE Chromaticity Diagram (Neutral White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


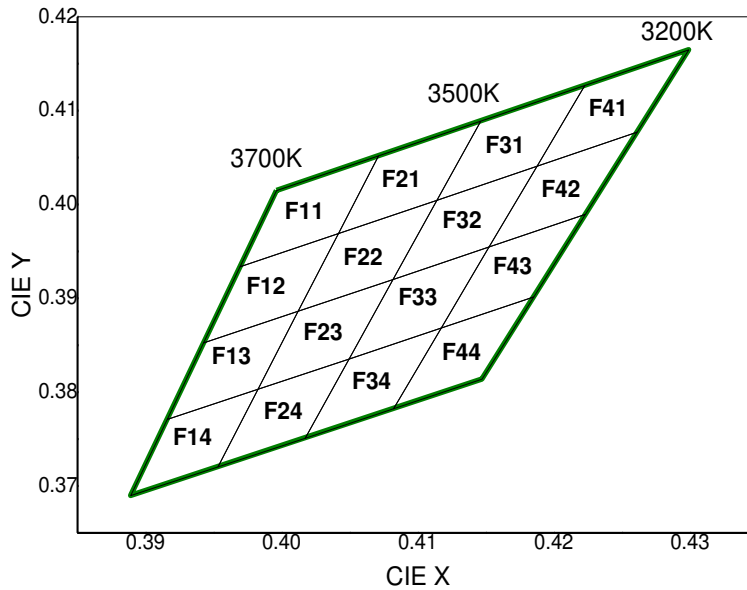
E11		E21		E31		E41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3736	0.3874	0.3804	0.3917	0.3871	0.3959	0.3939	0.4002
0.3720	0.3800	0.3784	0.3841	0.3849	0.3881	0.3914	0.3922
0.3784	0.3841	0.3849	0.3881	0.3914	0.3922	0.3979	0.3962
0.3804	0.3917	0.3871	0.3959	0.3939	0.4002	0.4006	0.4044

E12		E22		E32		E42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3720	0.3800	0.3784	0.3841	0.3849	0.3881	0.3914	0.3922
0.3703	0.3726	0.3765	0.3765	0.3828	0.3803	0.3890	0.3842
0.3765	0.3765	0.3828	0.3803	0.3890	0.3842	0.3952	0.3880
0.3784	0.3841	0.3849	0.3881	0.3914	0.3922	0.3979	0.3962

E13		E23		E33		E43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3703	0.3726	0.3765	0.3765	0.3828	0.3803	0.3890	0.3842
0.3687	0.3652	0.3746	0.3689	0.3806	0.3725	0.3865	0.3762
0.3746	0.3689	0.3806	0.3725	0.3865	0.3762	0.3925	0.3798
0.3765	0.3765	0.3828	0.3803	0.3890	0.3842	0.3952	0.3880

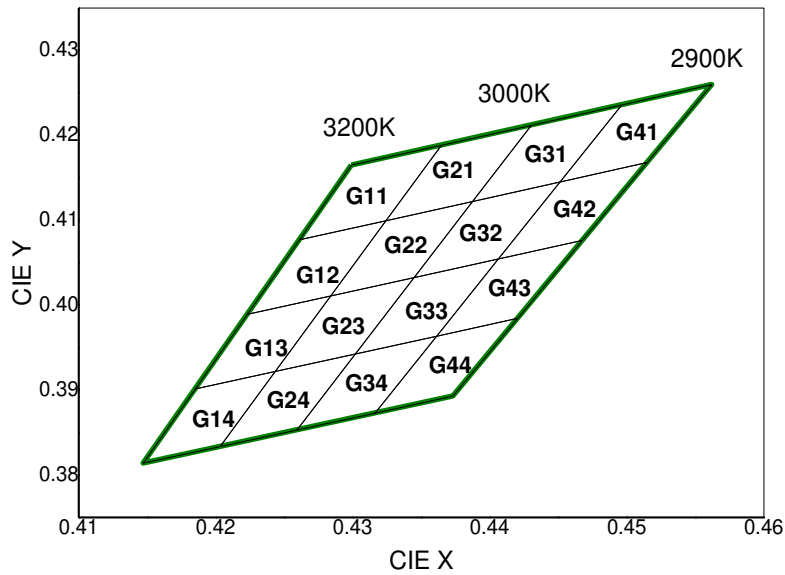
E14		E24		E34		E44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3687	0.3652	0.3746	0.3689	0.3806	0.3725	0.3865	0.3762
0.3670	0.3578	0.3727	0.3613	0.3784	0.3647	0.3841	0.3682
0.3727	0.3613	0.3784	0.3647	0.3841	0.3682	0.3898	0.3716
0.3746	0.3689	0.3806	0.3725	0.3865	0.3762	0.3925	0.3798

Color Bin Structure

CIE Chromaticity Diagram (Warm White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


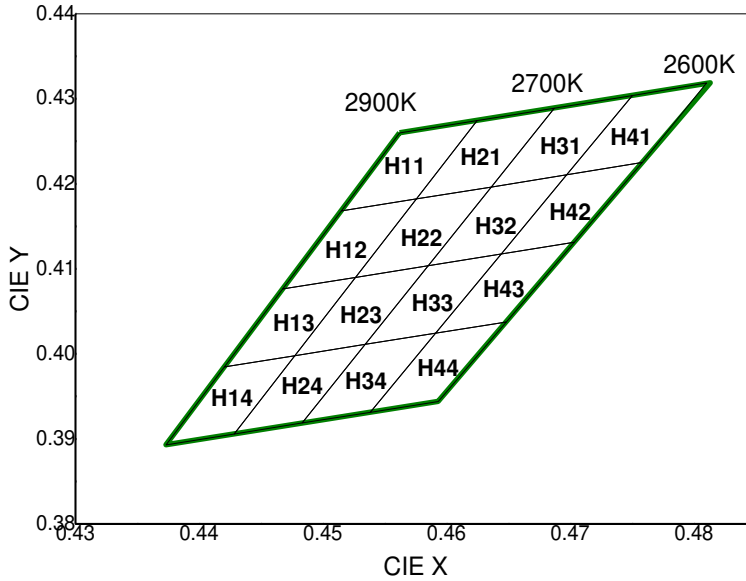
F11		F21		F31		F41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3996	0.4015	0.4071	0.4052	0.4146	0.4089	0.4223	0.4127
0.3969	0.3934	0.4042	0.3969	0.4114	0.4005	0.4187	0.4041
0.4042	0.3969	0.4114	0.4005	0.4187	0.4041	0.4261	0.4077
0.4071	0.4052	0.4146	0.4089	0.4223	0.4127	0.4299	0.4165
F12		F22		F32		F42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3969	0.3934	0.4042	0.3969	0.4114	0.4005	0.4187	0.4041
0.3943	0.3853	0.4012	0.3886	0.4082	0.3920	0.4152	0.3955
0.4012	0.3886	0.4082	0.3920	0.4152	0.3955	0.4223	0.3990
0.4042	0.3969	0.4114	0.4005	0.4187	0.4041	0.4261	0.4077
F13		F23		F33		F43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3943	0.3853	0.4012	0.3886	0.4082	0.3920	0.4152	0.3955
0.3916	0.3771	0.3983	0.3803	0.4049	0.3836	0.4117	0.3869
0.3983	0.3803	0.4049	0.3836	0.4117	0.3869	0.4185	0.3902
0.4012	0.3886	0.4082	0.3920	0.4152	0.3955	0.4223	0.3990
F14		F24		F34		F44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.3916	0.3771	0.3983	0.3803	0.4049	0.3836	0.4117	0.3869
0.3889	0.3690	0.3953	0.3721	0.4017	0.3751	0.4082	0.3783
0.3953	0.3721	0.4017	0.3751	0.4082	0.3783	0.4147	0.3814
0.3983	0.3803	0.4049	0.3836	0.4117	0.3869	0.4185	0.3902

Color Bin Structure

CIE Chromaticity Diagram (Warm White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


G11		G21		G31		G41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4299	0.4165	0.4364	0.4188	0.4430	0.4212	0.4496	0.4236
0.4261	0.4077	0.4324	0.4099	0.4387	0.4122	0.4451	0.4145
0.4324	0.4100	0.4387	0.4122	0.4451	0.4145	0.4514	0.4168
0.4365	0.4189	0.4430	0.4212	0.4496	0.4236	0.4562	0.4260
G12		G22		G32		G42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4261	0.4077	0.4324	0.4100	0.4387	0.4122	0.4451	0.4145
0.4223	0.3990	0.4284	0.4011	0.4345	0.4033	0.4406	0.4055
0.4284	0.4011	0.4345	0.4033	0.4406	0.4055	0.4468	0.4077
0.4324	0.4100	0.4387	0.4122	0.4451	0.4145	0.4515	0.4168
G13		G23		G33		G43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4223	0.3990	0.4284	0.4011	0.4345	0.4033	0.4406	0.4055
0.4185	0.3902	0.4243	0.3922	0.4302	0.3943	0.4361	0.3964
0.4243	0.3922	0.4302	0.3943	0.4361	0.3964	0.4420	0.3985
0.4284	0.4011	0.4345	0.4033	0.4406	0.4055	0.4468	0.4077
G14		G24		G34		G44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4243	0.3922	0.4302	0.3943	0.4302	0.3943	0.4361	0.3964
0.4203	0.3834	0.4259	0.3853	0.4259	0.3853	0.4316	0.3873
0.4147	0.3814	0.4203	0.3834	0.4316	0.3873	0.4373	0.3893
0.4185	0.3902	0.4243	0.3922	0.4361	0.3964	0.4420	0.3985

Color Bin Structure

CIE Chromaticity Diagram (Warm White), $I_F = 20\text{mA}$, $T_j = 25^\circ\text{C}$


H11		H21		H31		H41	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4562	0.4260	0.4625	0.4275	0.4687	0.4289	0.4750	0.4304
0.4515	0.4168	0.4575	0.4182	0.4636	0.4197	0.4697	0.4211
0.4575	0.4182	0.4636	0.4197	0.4697	0.4211	0.4758	0.4225
0.4625	0.4275	0.4687	0.4289	0.4750	0.4304	0.4810	0.4319

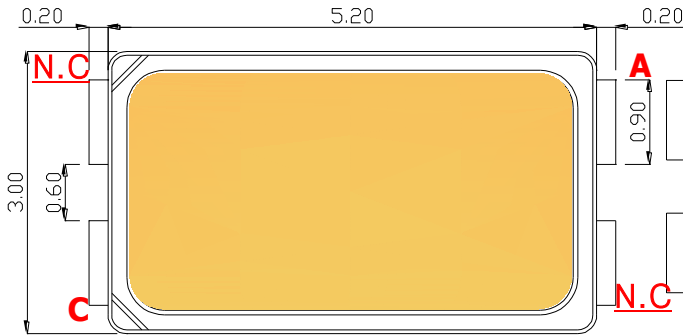
H12		H22		H32		H42	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4515	0.4168	0.4575	0.4182	0.4636	0.4197	0.4697	0.4211
0.4468	0.4077	0.4526	0.4090	0.4585	0.4104	0.4644	0.4118
0.4526	0.4090	0.4585	0.4104	0.4644	0.4118	0.4703	0.4132
0.4575	0.4182	0.4636	0.4197	0.4697	0.4211	0.4758	0.4225

H13		H23		H33		H43	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4468	0.4077	0.4526	0.4090	0.4585	0.4104	0.4644	0.4118
0.4420	0.3985	0.4477	0.3998	0.4534	0.4012	0.4591	0.4025
0.4477	0.3998	0.4534	0.4012	0.4591	0.4025	0.4648	0.4038
0.4526	0.4090	0.4585	0.4104	0.4644	0.4118	0.4703	0.4132

H14		H24		H34		H44	
CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y	CIE X	CIE Y
0.4420	0.3985	0.4477	0.3998	0.4534	0.4012	0.4591	0.4025
0.4373	0.3893	0.4428	0.3906	0.4483	0.3919	0.4538	0.3932
0.4428	0.3906	0.4483	0.3919	0.4538	0.3932	0.4593	0.3944
0.4477	0.3998	0.4534	0.4012	0.4591	0.4025	0.4648	0.4038

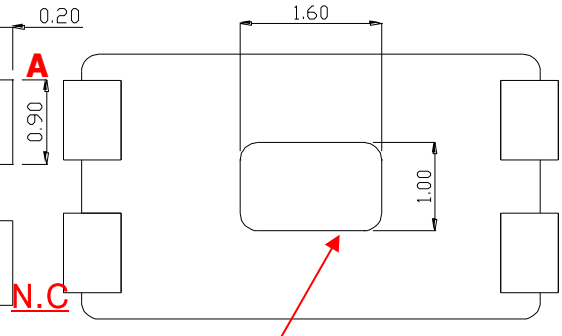
Mechanical Dimensions

Top View



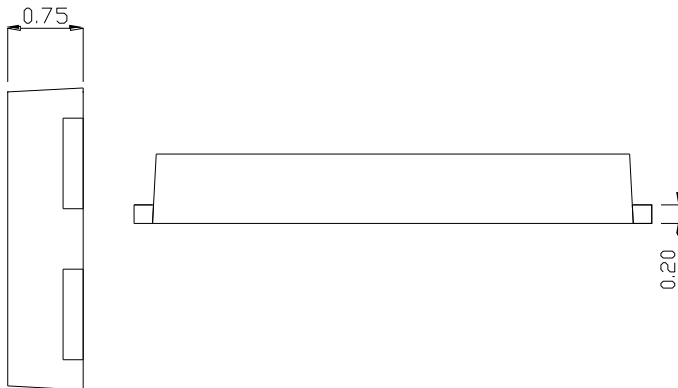
Cathode Mark

Bottom View

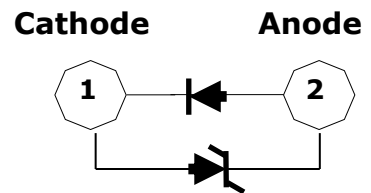


Slug : Anode

Side View



Circuit



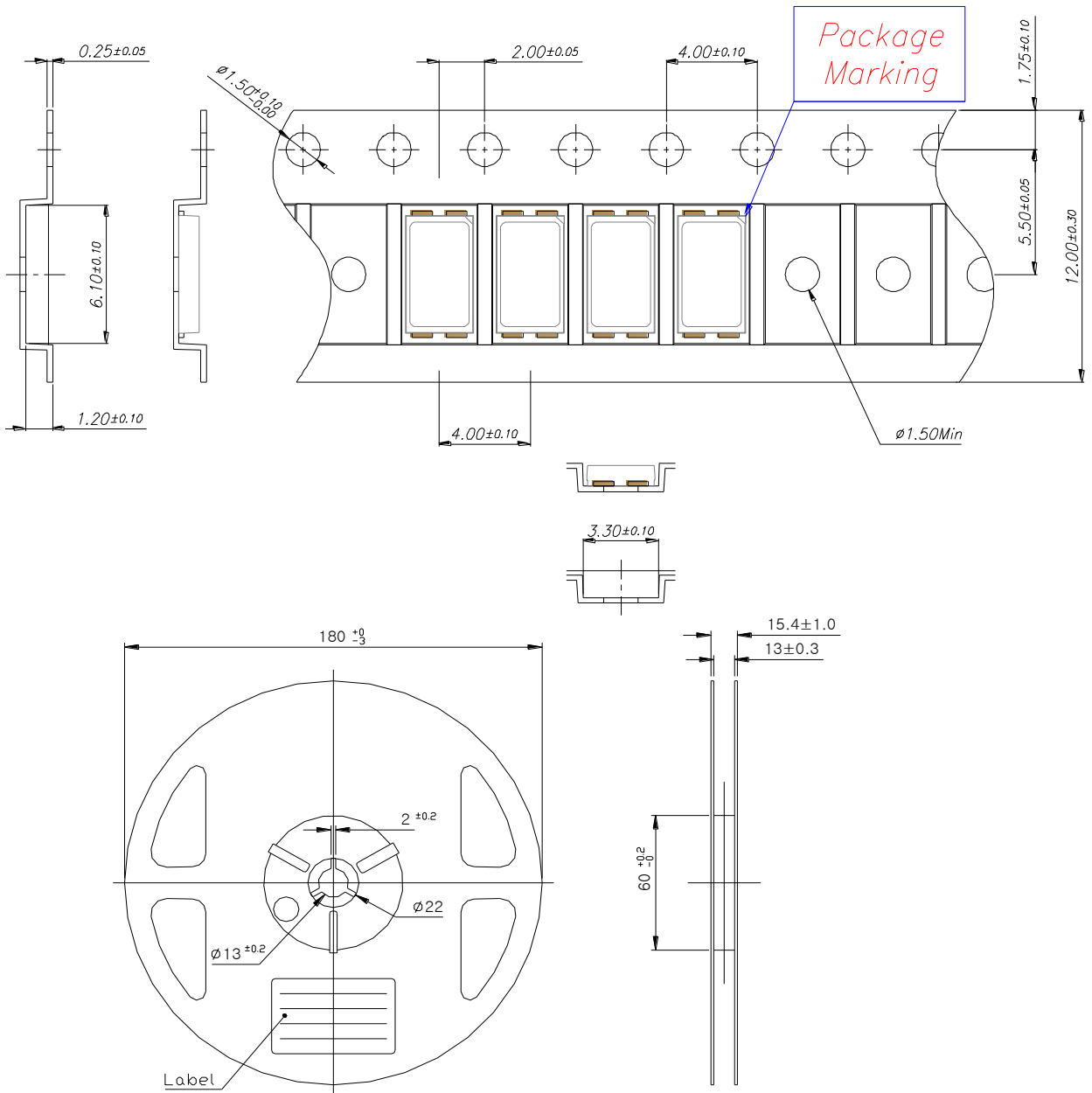
ESD Protection Device

[Note] Package Forward Current is 20mA

Notes :

- (1) All dimensions are in millimeters.
- (2) Scale : none
- (3) Undefined tolerance is $\pm 0.1\text{mm}$

Emitter Tape & Reel Packaging



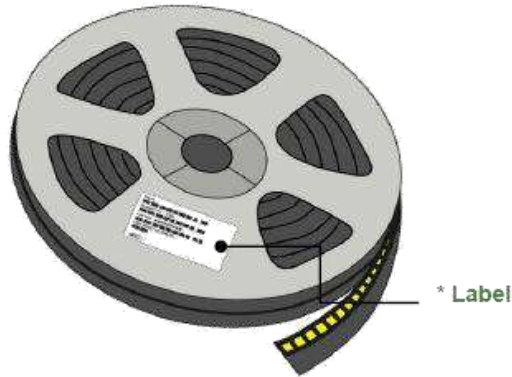
(Tolerance: ± 0.2 , Unit: mm)

Notes :

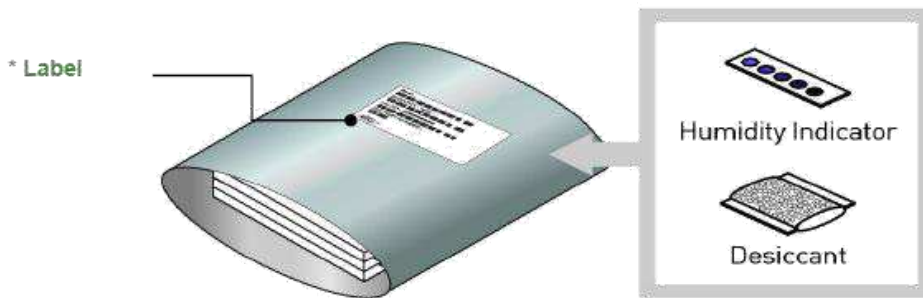
- (1) Quantity : 3,500pcs/Reel
- (2) Cumulative Tolerance : Cumulative Tolerance/10 pitches to be ± 0.2 mm
- (3) Adhesion Strength of Cover Tape : Adhesion strength to be 0.1-0.7N when the cover tape is turned off from the carrier tape at the angle of 10° to the carrier tape
- (4) Package : P/N, Manufacturing data Code No. and quantity to be indicated on a damp proof package

Emitter Tape & Reel Packaging

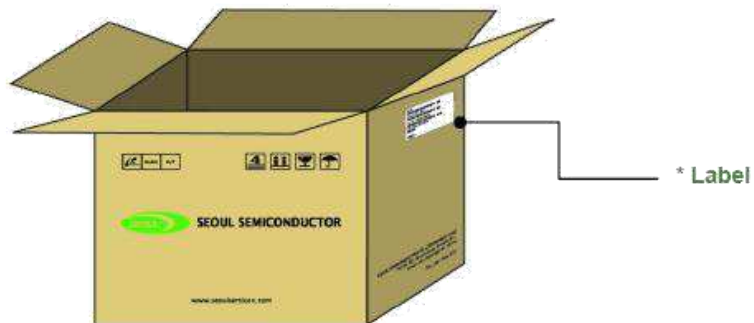
Reel



Aluminum Bag



Outer Box



Product Nomenclature

Table 6. Part Numbering System : X₁X₂X₃X₄X₅X₆X₇X₈

Part Number Code	Description	Part Number	Value
X ₁	Company	S	SSC
X ₂	Acrich LED series	A	
X ₃ X ₄	Color Specification	W8	CRI 80
X ₅	Package series	K	K series
X ₆	Voltage	G	
X ₇	PCB type	0	Emitter
X ₈	Revision	B	rev1

Table 7. Lot Numbering System : Y₁Y₂Y₃Y₄Y₅Y₆Y₇Y₈Y₉Y₁₀-Y₁₁Y₁₂Y₁₃Y₁₄Y₁₅Y₁₆Y₁₇

Lot Number Code	Description	Lot Number	Value
Y ₁ Y ₂	Year		
Y ₃	Month		
Y ₄ Y ₅	Day		
Y ₆	Top View LED series		
Y ₇ Y ₈ Y ₉ Y ₁₀	Mass order		
Y ₁₁ Y ₁₂ Y ₁₃ Y ₁₄ Y ₁₅ Y ₁₆ Y ₁₇	Internal Number		