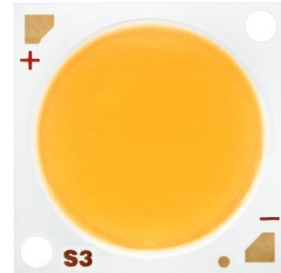


Enable High Flux and Cost Efficient System

Z Power Chip on board – ZC series

SDW*5F1C (SDW05F1C, SDW85F1C, SDW95F1C)



Product Brief

Description

- The ZC series are LED arrays which provide High Flux and High Efficacy.
- It is especially designed for easy assembly of lighting fixtures by eliminating reflow soldering process.
- It's thermal management is better than other power LED solutions with wide Metal area.
- ZC series are ideal light sources for General Lighting applications including Replacement Lamps, Industrial & Commercial Lightings and other high Lumen required applications.

Features and Benefits

- Size 28mm * 28mm
- Power dissipation 35.8 ~ 74W
- Wide CCT range with CRI70~90
- Forward V_F typ 35.8V
- Maximum Current 1.84A
- MacAdam 3-step binning
- Uniformed Shadow
- Excellent Thermal management
- RoHS compliant

Key Applications

- Commercial – Downlight
- Industrial – High/Low Bay lighting
- Residential
- Replacement lamps – Bulb, PAR
- Outdoor area – Street lighting, Tunnel lighting, Parking area lighting

Table 1. Product Selection Table

Part Number	CCT [K]			
	Color	Min.	Typ.	Max.
SDW05F1C	Cool White	4,700	-	6,000
	Neutral White	3,700	-	4,700
SDW85F1C	Cool White	4,700	-	6,000
	Neutral White	3,700	-	4,700
	Warm White	2,600	-	3,700
SDW95F1C	Neutral White	3,700	-	4,200
	Warm White	2,600	-	3,700

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Product Performance & Characterization Guide

Table 2. Electro Optical Characteristics, $T_j=25^{\circ}\text{C}$

Part Number	CCT (K) ^[1]	Typical Luminous Flux ^[2] , Φ_v ^[3] (lm)		Typical Forward Voltage, V_F ^[4] (V)		CRI ^[5] , R_a	Viewing Angle (degrees) $2\theta_{1/2}$
	Typ.	1A	1.84A*	1A	1.84A*	Min.	Typ.
SDW05F1C	5600	5200	8216	35.8	37.5	70	120
	5000	5300	8374	35.8	37.5	70	120
	4500	5200	8216	35.8	37.5	70	120
	4000	5180	8184	35.8	37.5	70	120
SDW85F1C	5600	4878	7512	35.8	37.5	80	120
	5000	4961	7639	35.8	37.5	80	120
	4000	4783	7356	35.8	37.5	80	120
	3500	4680	7198	35.8	37.5	80	120
	3000	4575	7036	35.8	37.5	80	120
	2700	4400	6767	35.8	37.5	80	120
SDW95F1C	4000	4100	5207	35.8	37.5	90	120
	3500	3876	4923	35.8	37.5	90	120
	3000	3800	4826	35.8	37.5	90	120
	2700	3700	4699	35.8	37.5	90	120

Notes :

- (1) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. Color coordinate : ± 0.01 , CCT $\pm 5\%$ tolerance.
- (2) Seoul Semiconductor maintains a tolerance of $\pm 7\%$ on flux and power measurements.
- (3) Φ_v is the total luminous flux output as measured with an integrating sphere.
- (4) Tolerance is $\pm 3\%$ on forward voltage measurements.
- (5) Tolerance is ± 2 on CRI measurements.

* No values are provided by real measurement. Only for reference purpose.

Product Performance & Characterization Guide

Table 3. Electro Optical Characteristics, $T_j=85^{\circ}\text{C}$

Part Number	CCT (K) ^[1]	Typical Luminous Flux ^[2] , Φ_v ^[3] (lm)	Typical Forward Voltage, V_f ^[4] (V)
	Typ.	1A *	1A *
SDW05F1C	5600	4680	34.3
	5000	4770	34.3
	4500	4680	34.3
	4000	4662	34.3
SDW85F1C	5600	4341	34.3
	5000	4415	34.3
	4000	4257	34.3
	3500	4165	34.3
	3000	4072	34.3
	2700	3916	34.3
SDW95F1C	4000	3567	34.3
	3500	3372	34.3
	3000	3306	34.3
	2700	3219	34.3

Notes :

- (1) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. Color coordinate : ± 0.01 , CCT $\pm 5\%$ tolerance.
- (2) Seoul Semiconductor maintains a tolerance of $\pm 7\%$ on flux and power measurements.
- (3) Φ_v is the total luminous flux output as measured with an integrating sphere.
- (4) Tolerance is $\pm 3\%$ on forward voltage measurements.
- (5) Tolerance is ± 2 on CRI measurements.

* No values are provided by real measurement. Only for reference purpose.

Product Performance & Characterization Guide

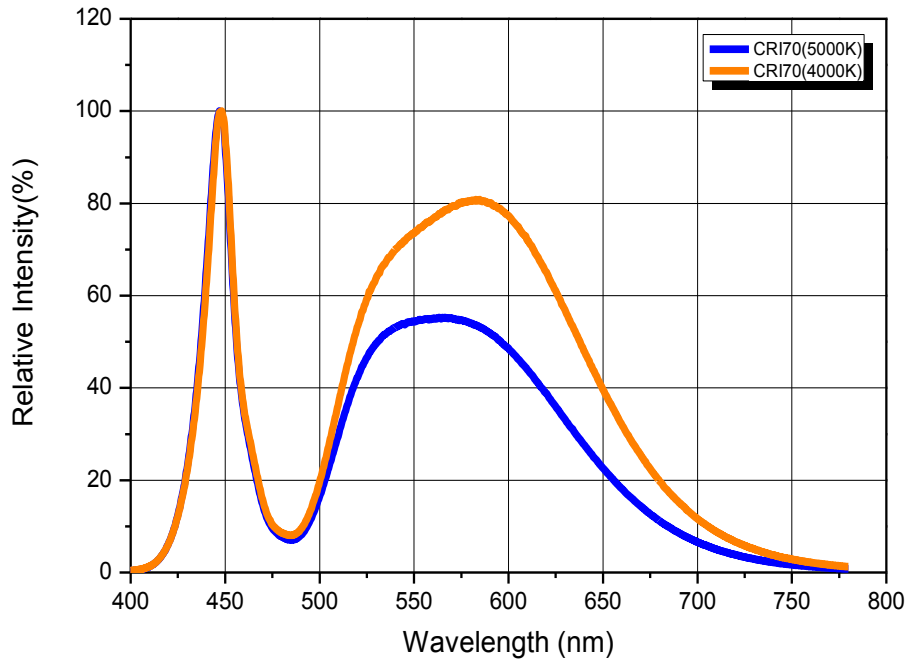
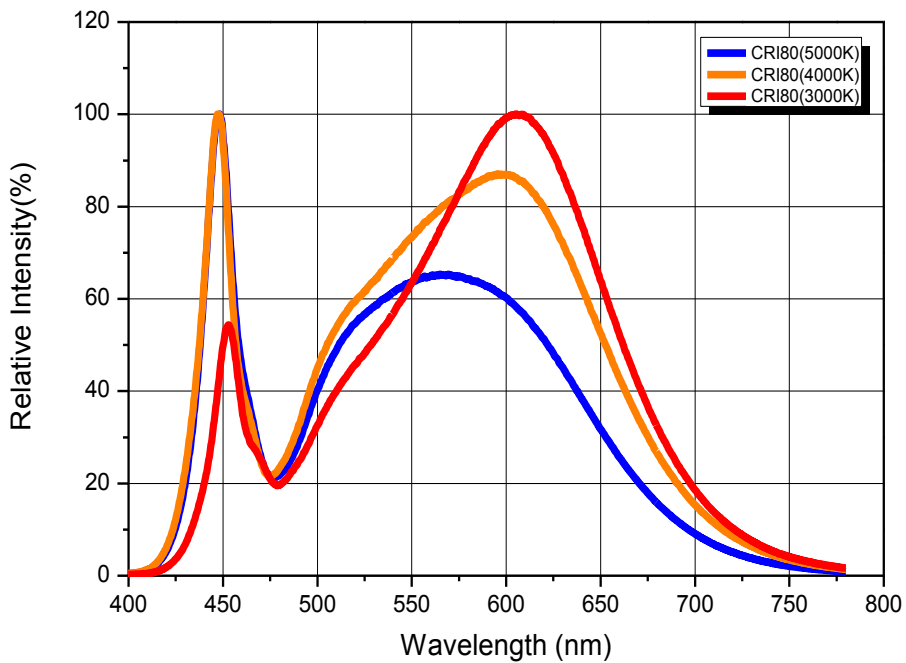
Table 4. Absolute Maximum Characteristics, $T_j=25^{\circ}\text{C}$

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Forward Current	I_F	-	1	1.84	A
Power Dissipation	P_d	-	35.8	74	W
Junction Temperature	T_j	-	-	140	$^{\circ}\text{C}$
Operating Temperature	T_{opr}	-40	-	85	$^{\circ}\text{C}$
Surface Temperature	T_s	-	-	100	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40	-	100	$^{\circ}\text{C}$
Thermal resistance (J to S) ^[1]	$R\theta_{J-S}$	-	0.48	-	K/W
ESD Sensitivity(HBM)	-	Class 3A JESD22-A114-E			

Notes :

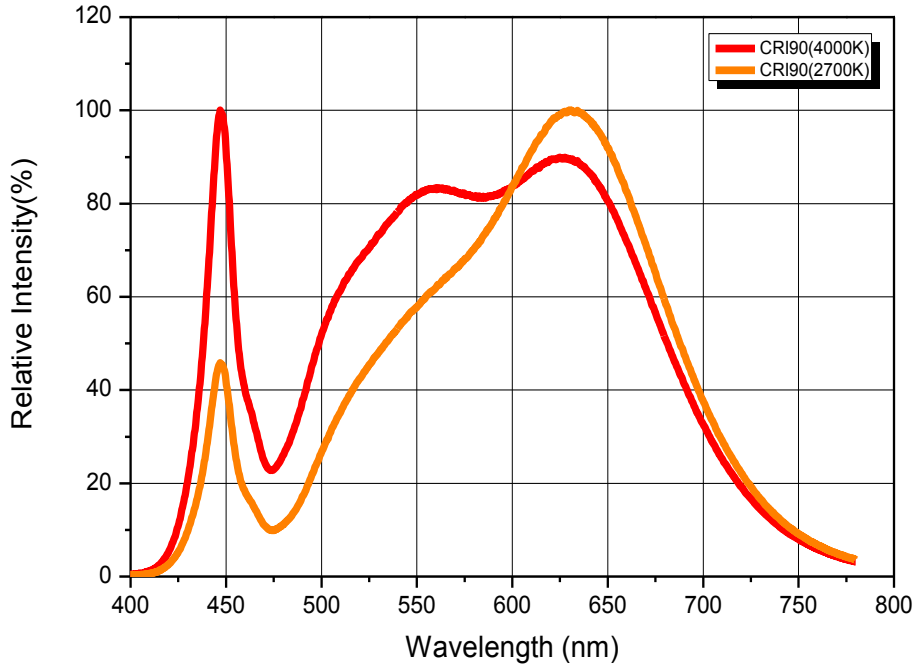
(1) Thermal Resistance : $R\theta_{J-S}$ (Junction to T_s point)

Characteristics Graph

Fig 1. Color Spectrum, $T_j=25^\circ\text{C}$, $I_F=1\text{A}$ (CRI70)

Fig 2. Color Spectrum, $T_j=25^\circ\text{C}$, $I_F=1\text{A}$ (CRI80)


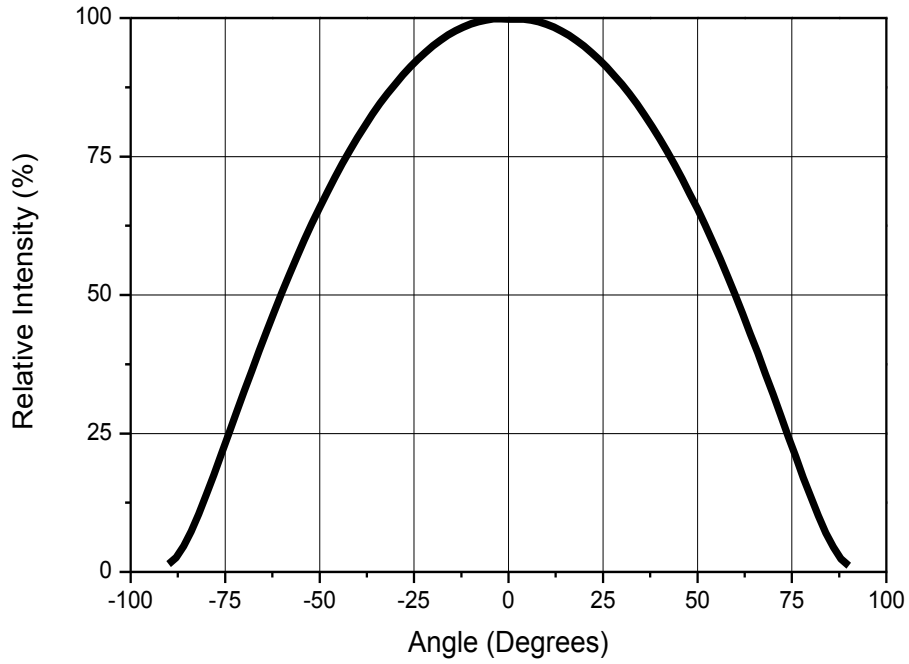
Characteristics Graph

Fig 3. Color Spectrum, $T_j=25^\circ\text{C}$, $I_F=1\text{A}$ (CRI90)

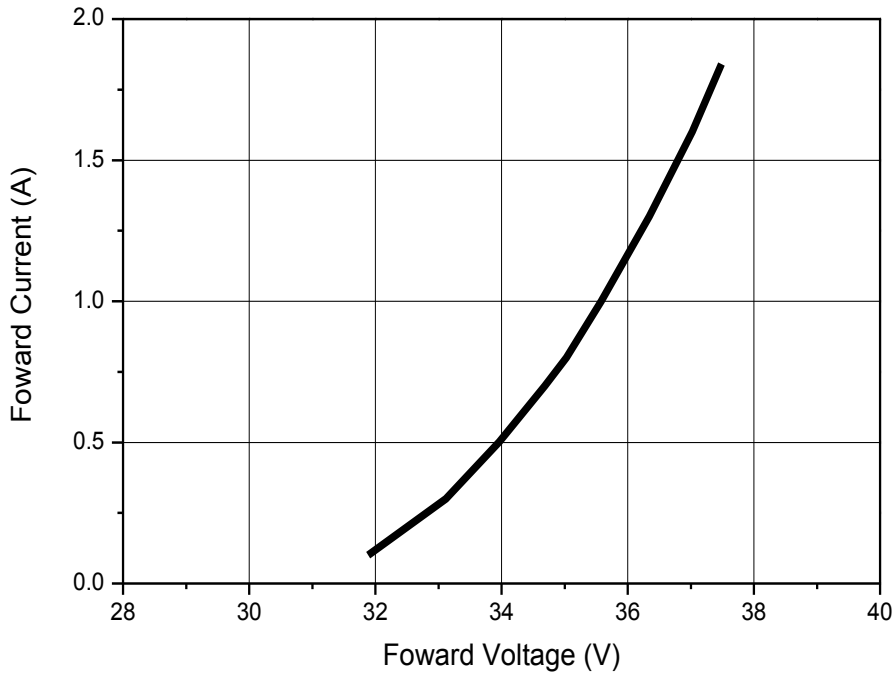
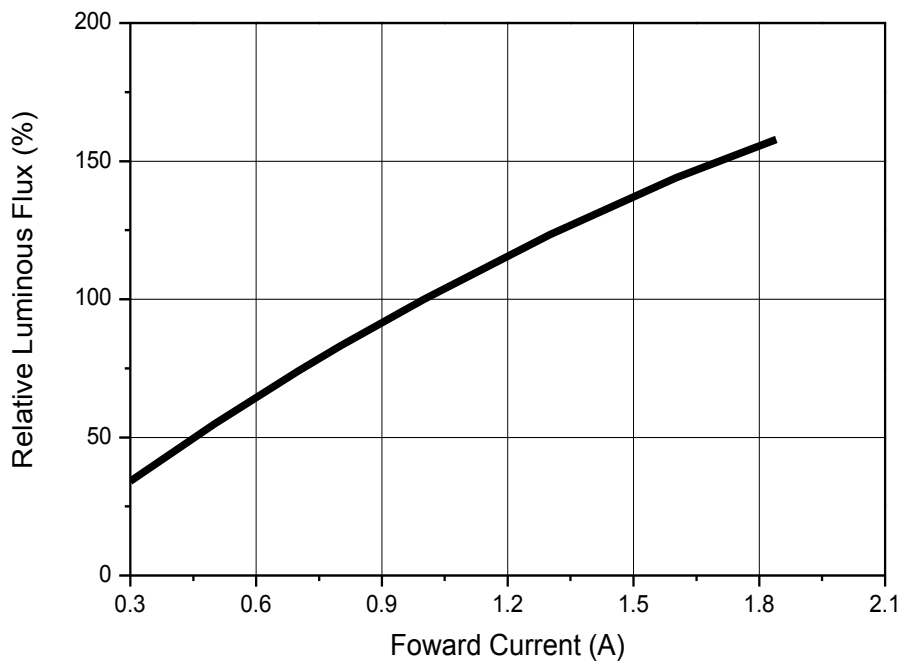


Characteristics Graph

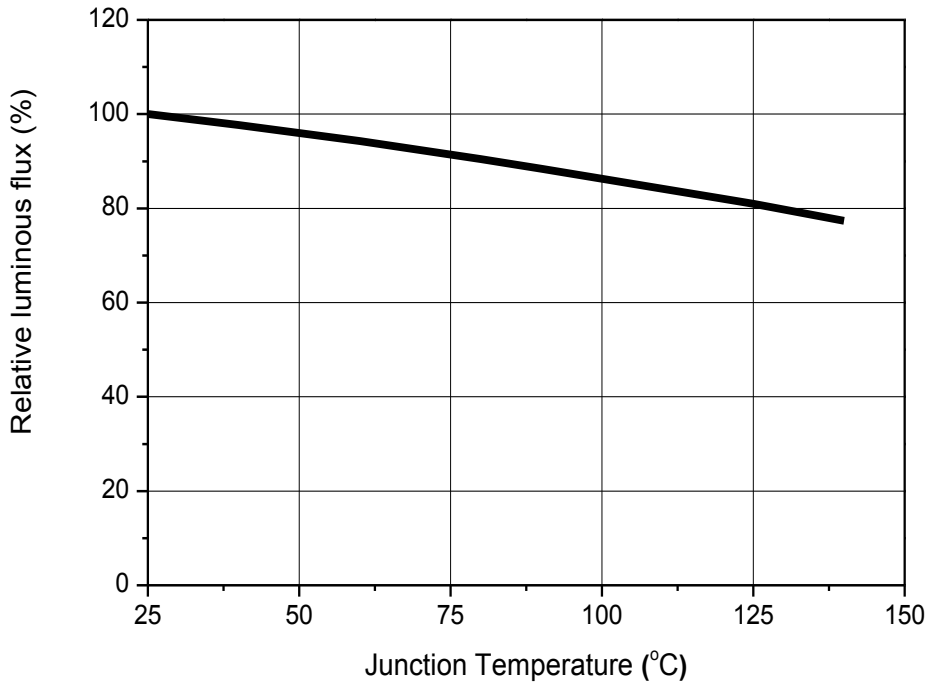
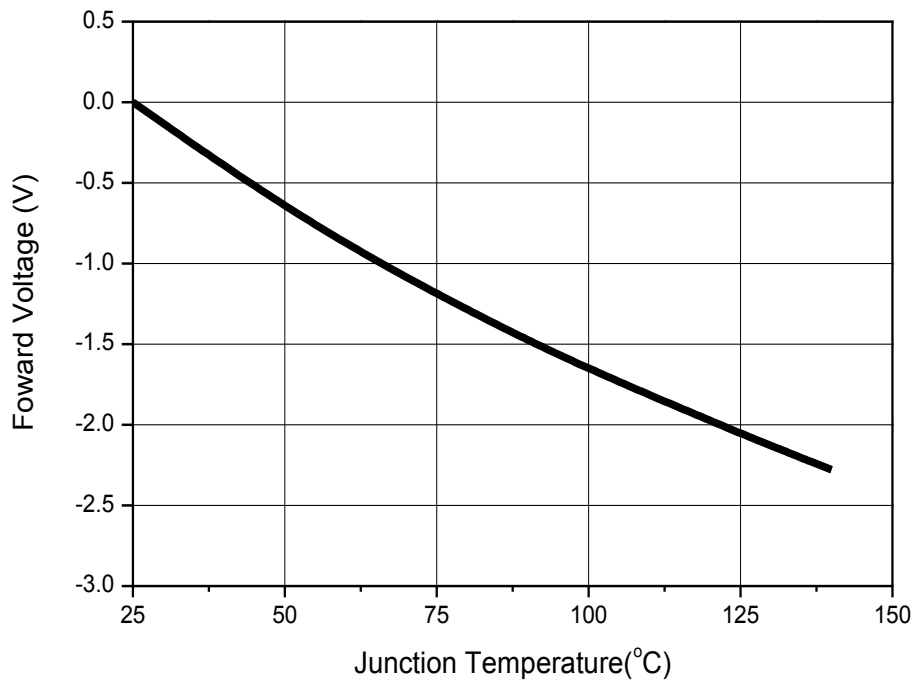
Fig 4. Radiant pattern, $T_j=25^\circ\text{C}$, $I_F=1\text{A}$



Characteristics Graph

Fig 5. Forward Voltage vs. Forward Current, $T_j=25^\circ\text{C}$

Fig 6. Forward Current vs. Relative Luminous Flux, $T_j=25^\circ\text{C}$


Characteristics Graph

Fig 7. Junction Temperature vs. Relative Light Output, $I_F=1A$

Fig 8. Junction Temperature vs. Forward Voltage, $I_F=1A$


Characteristics Graph

Fig 9. Junction Temperature vs. CIE X, Y Shift, $I_F=1A$ (CRI70)

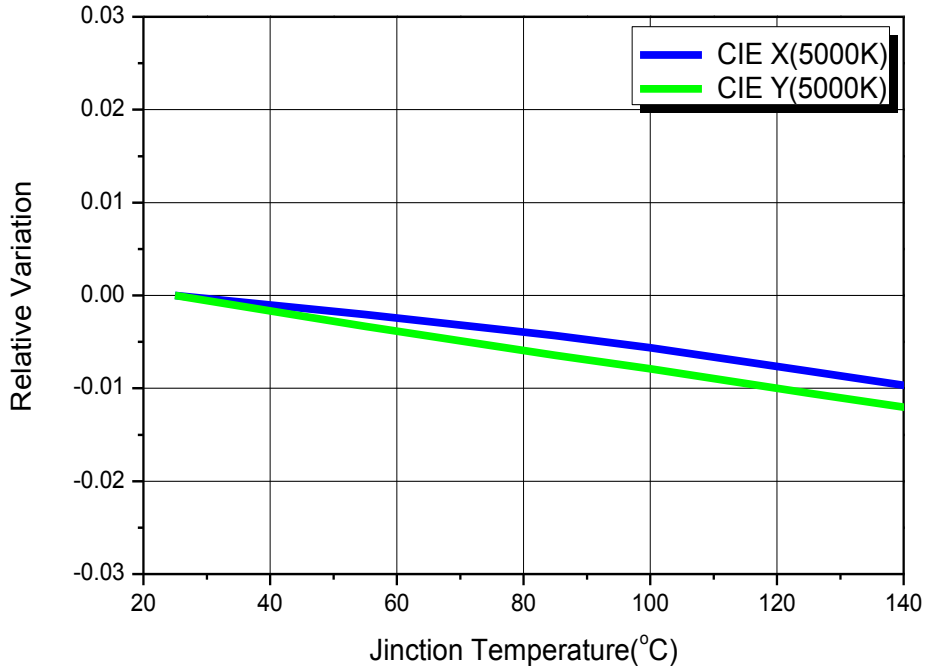
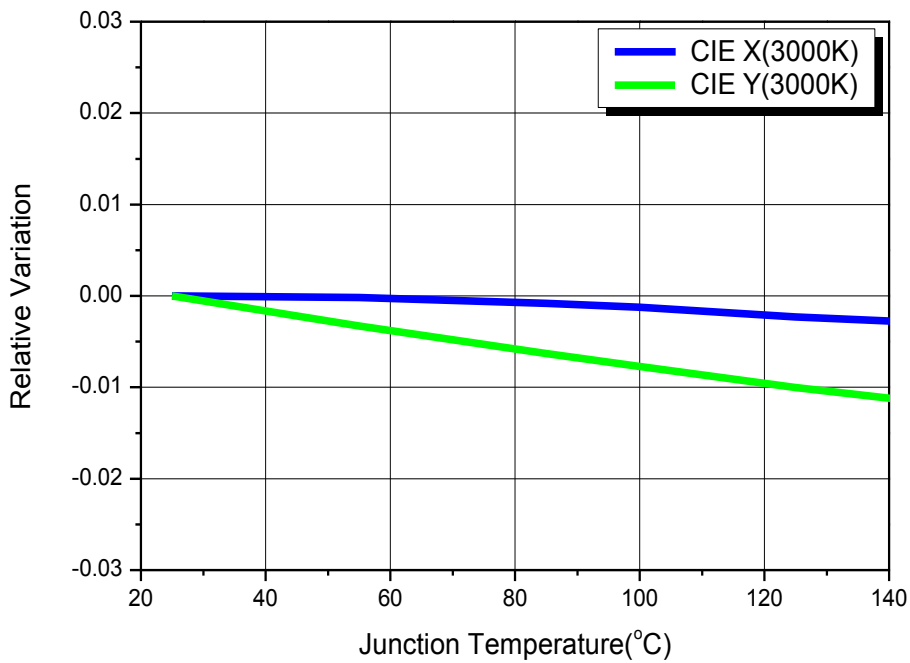
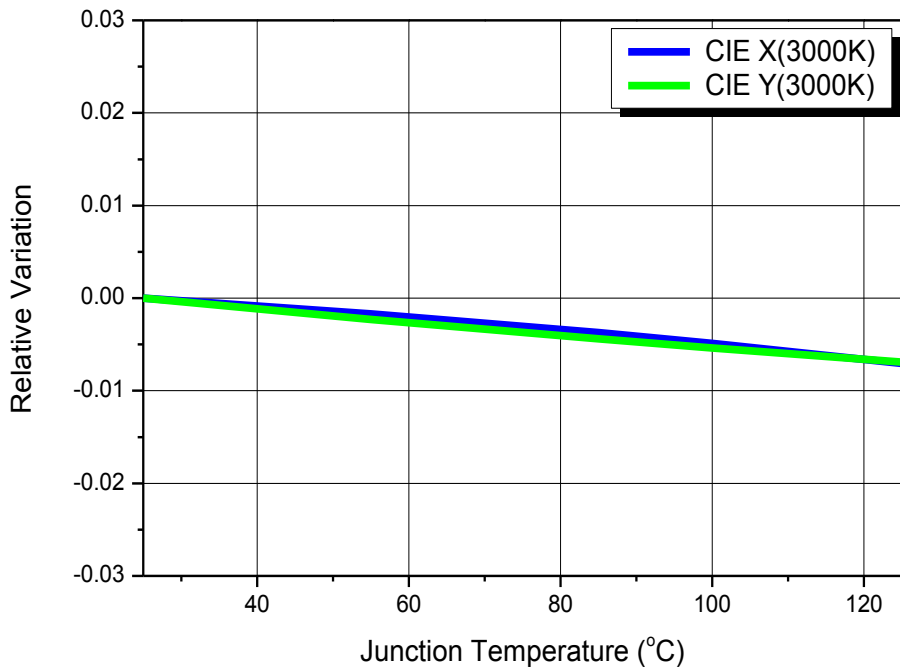
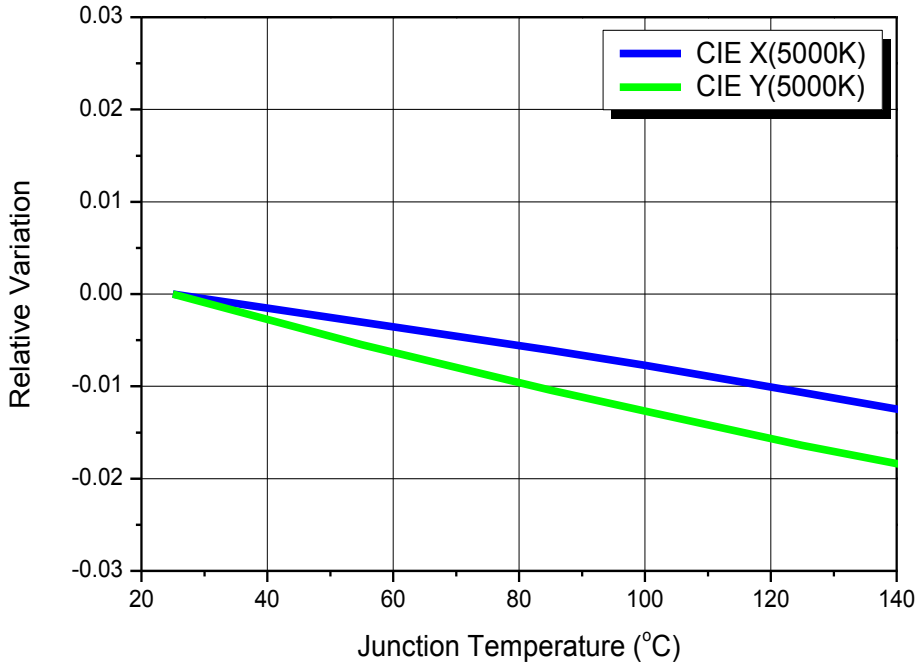


Fig 10. Junction Temperature vs. CIE X, Y Shift, $I_F=1A$ (CRI90)



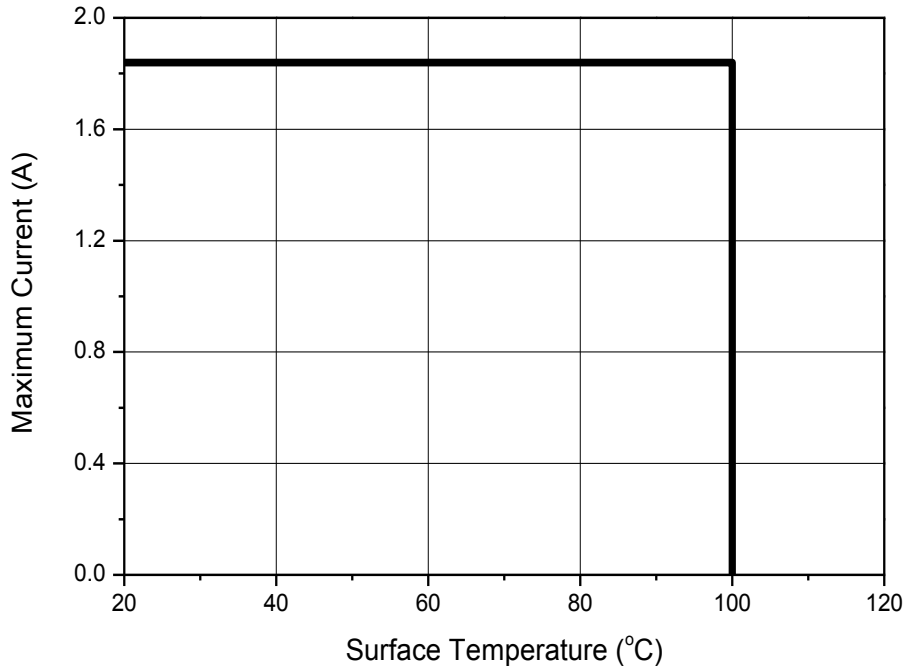
Characteristics Graph

Fig 11. Junction Temperature vs. CIE X, Y Shift, $I_F=1A$ (CRI80)



Characteristics Graph

Fig 12. Surface Temperature vs. Maximum Forward Current, $T_j(\text{max.})=140^\circ\text{C}$



Product Nomenclature

Table 5. Part Numbering System : $X_1X_2X_3 X_4X_5 X_6X_7 X_8$

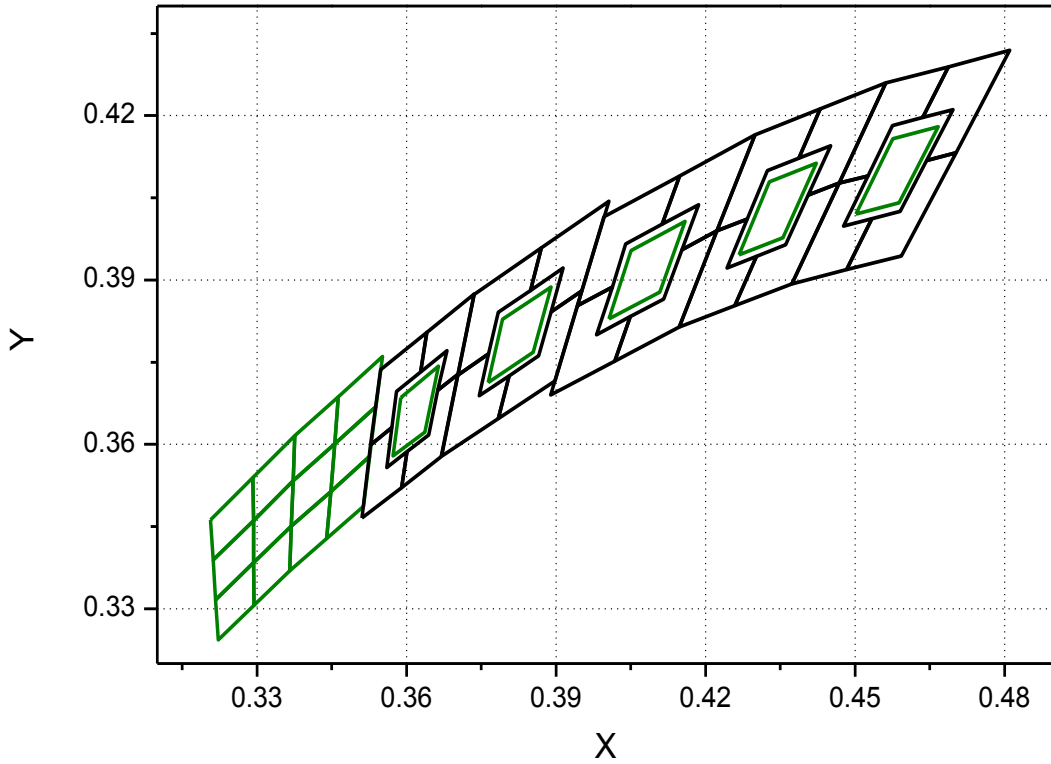
Part Number Code	Description	Part Number	Value
X_1	Company	S	
X_2	Package series	D	
X_3X_4	Color Specification	W0	CRI 70
		W8	CRI 80
		W9	CRI 90
X_5	Series number	5	
X_6	Lens type	F	Flat
X_7	PCB type	1	PCB
X_8	Revision number	C	New COB type

Table 6. Lot Numbering System : $Y_1Y_2Y_3Y_4Y_5Y_6 - Y_7Y_8Y_9Y_{10} - Y_{11}Y_{12}Y_{13}$

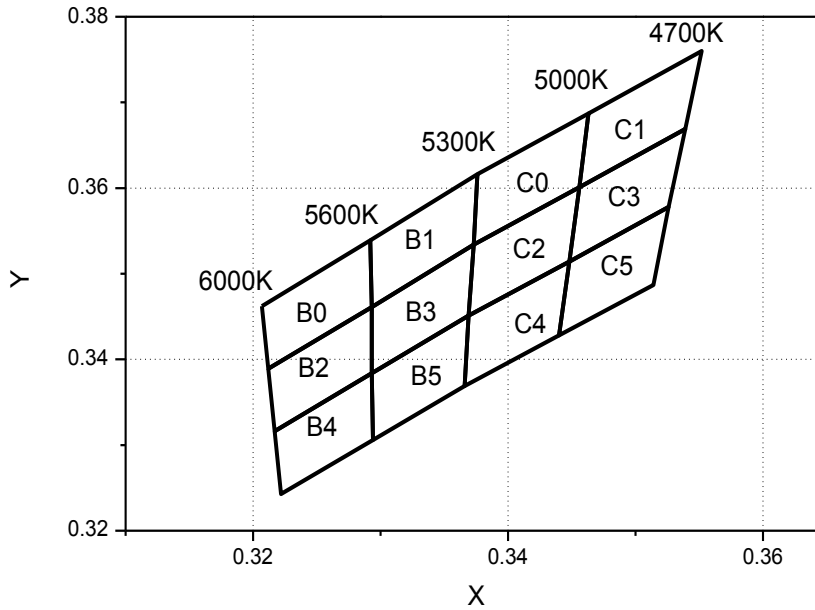
Lot Number Code	Description
Y_1Y_2	Year
Y_3Y_4	Month
Y_5Y_6	Day
$Y_7Y_8Y_9Y_{10}$	Mass order
$Y_{11}Y_{12}Y_{13}$	Tray No.

Color Bin Structure

CIE Chromaticity Diagram

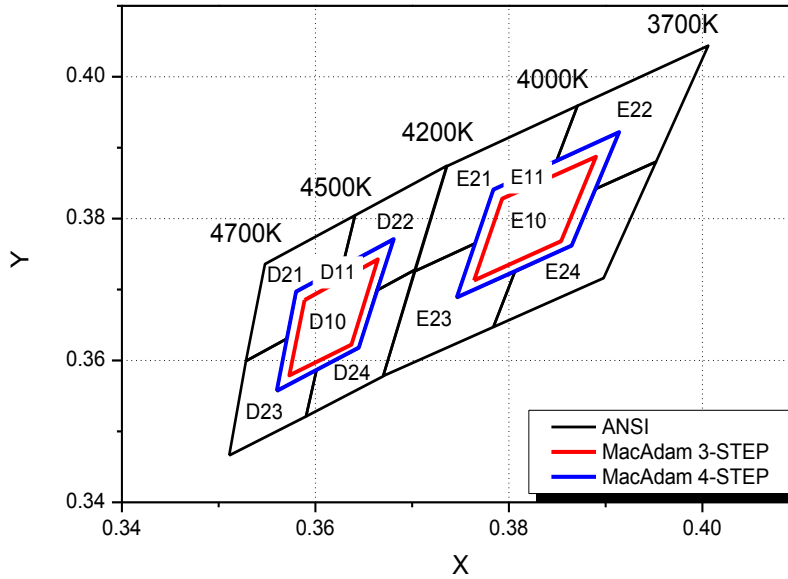


Color Bin Structure

CIE Chromaticity Diagram, $T_j=25^\circ\text{C}$, $I_f=1\text{A}$


B0		B1		B2	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3207	0.3462	0.3292	0.3539	0.3212	0.3389
0.3212	0.3389	0.3293	0.3461	0.3217	0.3316
0.3293	0.3461	0.3373	0.3534	0.3293	0.3384
0.3292	0.3539	0.3376	0.3616	0.3293	0.3461
B3		B4		B5	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3293	0.3461	0.3217	0.3316	0.3293	0.3384
0.3293	0.3384	0.3222	0.3243	0.3294	0.3306
0.3369	0.3451	0.3294	0.3306	0.3366	0.3369
0.3373	0.3534	0.3293	0.3384	0.3369	0.3451
C0		C1		C2	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3376	0.3616	0.3463	0.3687	0.3373	0.3534
0.3373	0.3534	0.3456	0.3601	0.3369	0.3451
0.3456	0.3601	0.3539	0.3669	0.3448	0.3514
0.3463	0.3687	0.3552	0.3760	0.3456	0.3601
C3		C4		C5	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3456	0.3601	0.3369	0.3451	0.3448	0.3514
0.3448	0.3514	0.3366	0.3369	0.3440	0.3428
0.3526	0.3578	0.3440	0.3428	0.3514	0.3487
0.3539	0.3669	0.3448	0.3514	0.3526	0.3578

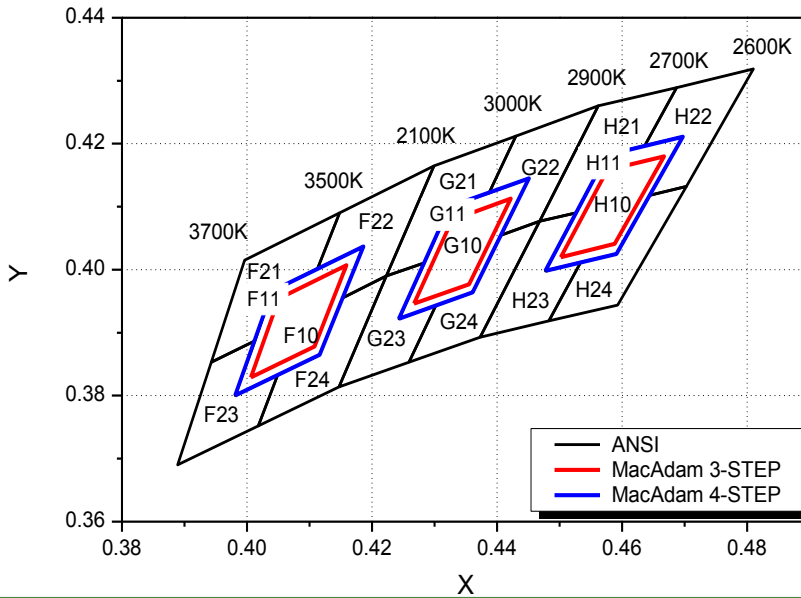
Color Bin Structure

CIE Chromaticity Diagram, $T_j=25^\circ\text{C}$, $I_f=1\text{A}$


3-STEP				4-STEP			
D10		E10		D11		E11	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3589	0.3685	0.3764	0.3713	0.3560	0.3557	0.3746	0.3689
0.3665	0.3742	0.3793	0.3828	0.3580	0.3697	0.3784	0.3841
0.3637	0.3622	0.3890	0.3887	0.3681	0.3771	0.3914	0.3922
0.3573	0.3579	0.3854	0.3768	0.3645	0.3618	0.3865	0.3762

ANSI							
D21		D22		D23		D24	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3528	0.3599	0.3628	0.3732	0.3601	0.3587	0.3511	0.3466
0.3548	0.3736	0.3641	0.3805	0.3645	0.3618	0.3528	0.3599
0.3641	0.3805	0.3736	0.3874	0.3663	0.3699	0.3570	0.3631
0.3628	0.3732	0.3703	0.3728	0.3703	0.3728	0.3560	0.3558
0.3580	0.3697	0.3663	0.3699	0.3670	0.3578	0.3601	0.3587
0.3570	0.3631	0.3681	0.3771	0.3590	0.3521	0.3590	0.3521
E21		E22		E23		E24	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.3703	0.3726	0.3890	0.3842	0.3670	0.3578	0.3784	0.3647
0.3736	0.3874	0.3914	0.3922	0.3703	0.3726	0.3806	0.3725
0.3871	0.3959	0.3849	0.3881	0.3765	0.3765	0.3865	0.3762
0.3849	0.3881	0.3871	0.3959	0.3746	0.3689	0.3890	0.3842
0.3784	0.3841	0.4006	0.4044	0.3806	0.3725	0.3952	0.3880
0.3765	0.3765	0.3952	0.3880	0.3784	0.3647	0.3898	0.3716

Color Bin Structure

CIE Chromaticity Diagram, $T_j=25^\circ\text{C}$, $I_f=1\text{A}$


3-STEP						4-STEP					
F10		G10		H10		F11		G11		H11	
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y
0.4006	0.3829	0.4267	0.3946	0.4502	0.4020	0.3981	0.3800	0.4243	0.3922	0.4477	0.3998
0.4051	0.3954	0.4328	0.4079	0.4576	0.4158	0.4040	0.3966	0.4324	0.4100	0.4575	0.4182
0.4159	0.4007	0.4422	0.4113	0.4667	0.4180	0.4186	0.4037	0.4451	0.4145	0.4697	0.4211
0.4108	0.3878	0.4355	0.3977	0.4588	0.4041	0.4116	0.3865	0.4361	0.3964	0.4591	0.4025
ANSI											
F21		F22		F23		F24					
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y				
0.4148	0.4090	0.4013	0.3887	0.4223	0.3990	0.4299	0.4165				
0.3996	0.4015	0.3943	0.3853	0.4153	0.3955	0.4148	0.4090				
0.3943	0.3853	0.3889	0.3690	0.4116	0.3865	0.4113	0.4002				
0.4013	0.3887	0.4018	0.3752	0.4049	0.3833	0.4186	0.4037				
0.4040	0.3966	0.4049	0.3833	0.4018	0.3752	0.4153	0.3955				
0.4113	0.4002	0.3981	0.3800	0.4147	0.3814	0.4223	0.3990				
G21		G22		G23		G24					
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y				
0.4223	0.3990	0.4406	0.4055	0.4147	0.3814	0.4259	0.3853				
0.4299	0.4165	0.4451	0.4145	0.4223	0.3990	0.4302	0.3943				
0.4430	0.4212	0.4387	0.4122	0.4284	0.4011	0.4361	0.3964				
0.4387	0.4122	0.4430	0.4212	0.4243	0.3922	0.4406	0.4055				
0.4324	0.4100	0.4562	0.4260	0.4302	0.3943	0.4468	0.4077				
0.4284	0.4011	0.4468	0.4077	0.4259	0.3853	0.4373	0.3893				
H21		H22		H23		H24					
CIE x	CIE y	CIE x	CIE y	CIE x	CIE y	CIE x	CIE y				
0.4468	0.4077	0.4644	0.4118	0.4373	0.3893	0.4483	0.3919				
0.4562	0.4260	0.4697	0.4211	0.4468	0.4077	0.4534	0.4012				
0.4687	0.4289	0.4636	0.4197	0.4526	0.4090	0.4591	0.4025				
0.4636	0.4197	0.4687	0.4289	0.4477	0.3998	0.4644	0.4118				
0.4575	0.4182	0.4810	0.4319	0.4534	0.4012	0.4703	0.4132				
0.4526	0.4090	0.4703	0.4132	0.4483	0.3919	0.4593	0.3944				

Color Bin Structure

Table 7. Bin Code description

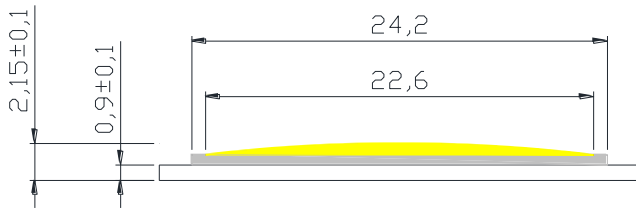
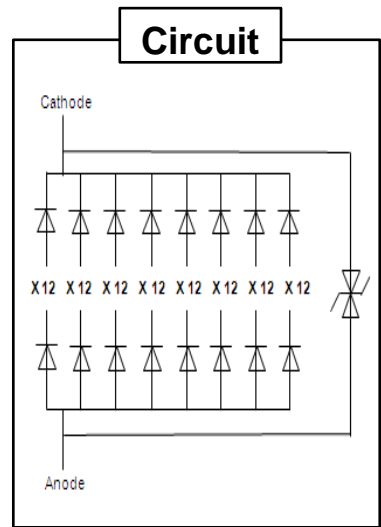
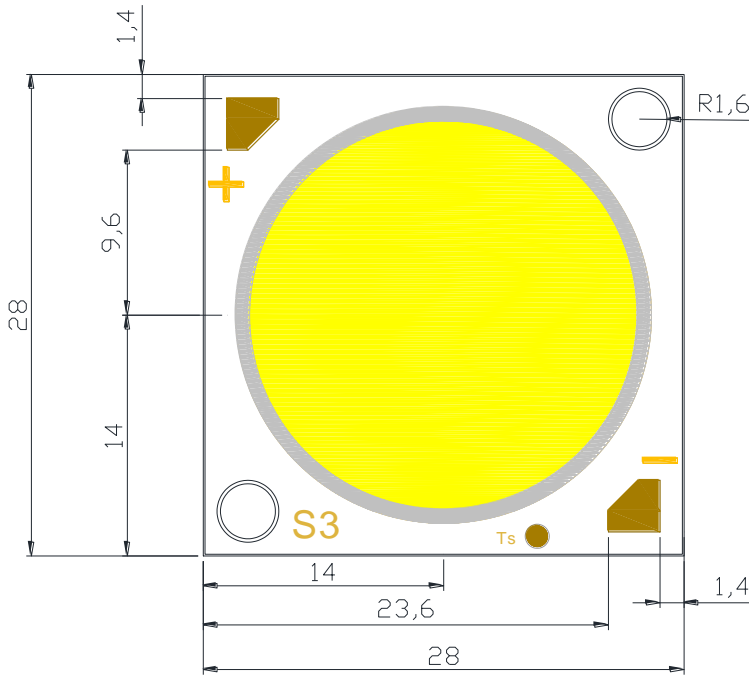
Part Number	Luminous Flux (lm) @ I _F = 1A			Color Chromaticity Coordinate @ I _F = 1A	Typical Forward Voltage (V _F) @ I _F = 1A		
	Bin Code	Min.	Max.		Bin Code	Min.	Max.
SDW05F1C	K1	3900	4500	Refer to page.15~17	D	32.0	34.0
	K2	4500	5100		E	34.0	38.0
	L1	5100	5800		F	38.0	40.0
SDW85F1C	J2	3400	3900	Refer to page.15~18	D	32.0	34.0
	K1	3900	4500		E	34.0	38.0
	K2	4500	5100		F	38.0	40.0
SDW95F1C	J1	2900	3400	Refer to page.15~18	D	32.0	34.0
	J2	3400	3900		E	34.0	38.0
	K1	3900	4500		F	38.0	40.0

Table 8. Ordering Information(Bin Code)

Available ranks

Part Number	CCT	CIE	LF rank			VF rank		
SDW05F1C	5300~6000K	B	K1	K2	L1	D	E	F
	4700~5300K	C	K1	K2	L1	D	E	F
	4200~4700K	D	K1	K2	L1	D	E	F
	3700~4200K	E	K1	K2	L1	D	E	F
SDW85F1C	5300~6000K	B	J2	K1	K2	D	E	F
	4700~5300K	C	J2	K1	K2	D	E	F
	3700~4200K	E	J2	K1	K2	D	E	F
	3200~3700K	F	J2	K1	K2	D	E	F
	2900~3700K	G	J2	K1	K2	D	E	F
	2600~2900K	H	J2	K1	K2	D	E	F
SDW95F1C	3700~4200K	E	J1	J2	K1	D	E	F
	3200~3700K	F	J1	J2	K1	D	E	F
	2900~3700K	G	J1	J2	K1	D	E	F
	2600~2900K	H	J1	J2	K1	D	E	F

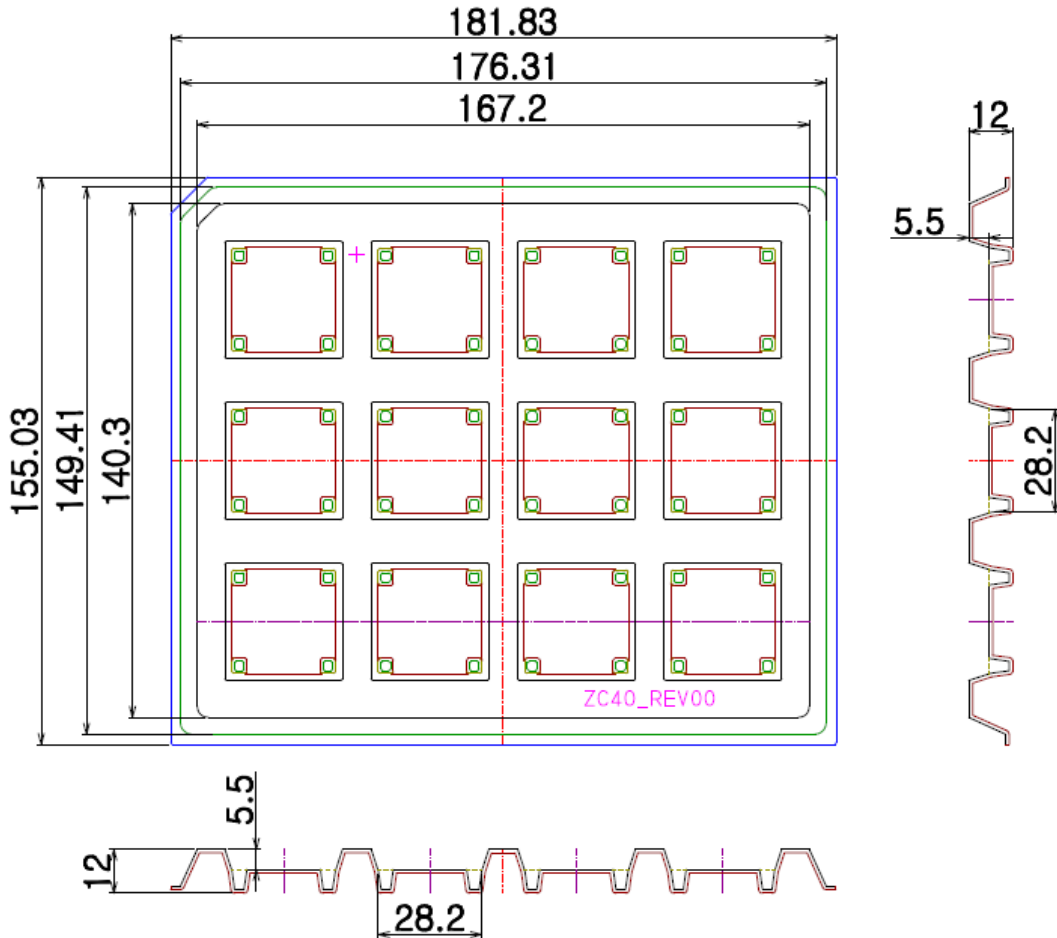
Mechanical Dimensions



Notes :

- (1) All dimensions are in millimeters.
- (2) Scale : none
- (3) Undefined tolerance is $\pm 0.2\text{mm}$

Packaging Specification

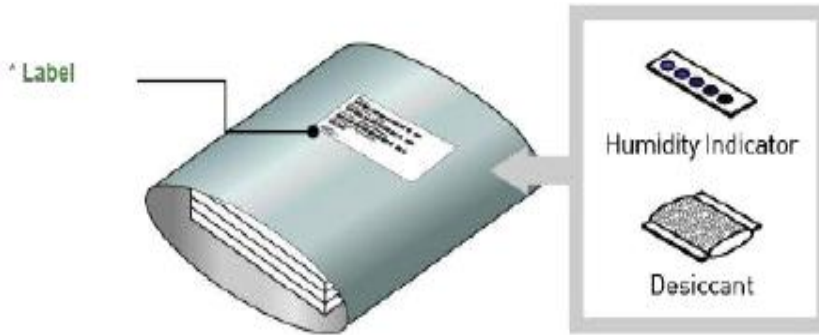


Notes :

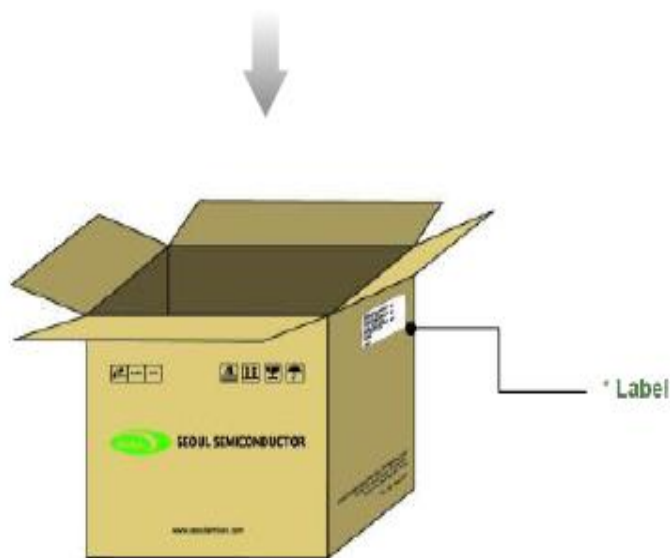
- (1) Quantity : 12pcs/Tray
- (2) All dimensions are in millimeters (tolerance : ± 0.3)
- (3) Scale none

Packaging Specification

Aluminum Bag



Outer Box



Notes :

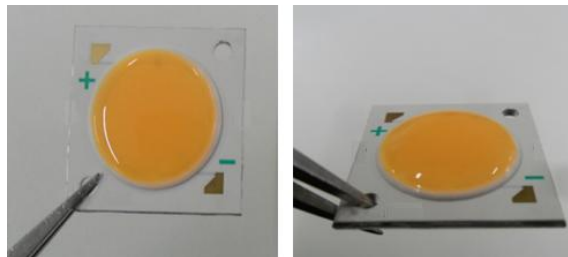
- (1) Heat Sealed after packing (Use Zipper Bag)
- (2) Quantity : 3Tray(36pcs) /Bag

Handling of Silicone Resin for LEDs

- (1) During processing, mechanical stress on the surface should be minimized as much as possible. Sharp objects of all types should not be used to pierce the sealing compound.



- (2) In general, LEDs should only be handled from the side. By the way, this also applies to LEDs without a silicone sealant, since the surface can also become scratched.



- (3) Silicone differs from materials conventionally used for the manufacturing of LEDs. These conditions must be considered during the handling of such devices. Compared to standard encapsulants, silicone is generally softer, and the surface is more likely to attract dust. As mentioned previously, the increased sensitivity to dust requires special care during processing. In cases where a minimal level of dirt and dust particles cannot be guaranteed, a suitable cleaning solution must be applied to the surface after the soldering of wire.
- (4) Seoul Semiconductor suggests using isopropyl alcohol for cleaning. In case other solvents are used, it must be assured that these solvents do not dissolve the package or resin. Ultrasonic cleaning is not recommended. Ultrasonic cleaning may cause damage to the LED.
- (5) Please do not mold this product into another resin (epoxy, urethane, etc) and do not handle this product with acid or sulfur material in sealed space.
- (6) Avoid leaving fingerprints on silicone resin parts.

Precaution for Use

(1) Storage

To avoid the moisture penetration, we recommend storing Power LEDs in a dry box with a desiccant.

The recommended storage temperature range is 5 °C to 30 °C and a maximum humidity of 50%.

(2) Use Precaution after Opening the Packaging. Pay attention to the following:

a. Recommend conditions after opening the package

- Sealing

- Temperature : 5 ~ 40 °C Humidity : less than RH30%

b. If the package has been opened more than 4 week or the color of the desiccant changes.

(3) For manual soldering

Seoul Semiconductor recommends the soldering condition

(ZC series product is not adaptable to reflow process)

a. Use lead-free soldering

b. Soldering should be implemented using a soldering equipment at temperature lower than 350 °C.

c. Before proceeding the next step, product temperature must be stabilized at room temperature.

(4) Components should not be mounted on warped (non coplanar) portion of PCB.

(5) Radioactive exposure is not considered for the products listed here in.

(6) It is dangerous to drink the liquid or inhale the gas generated by such products when chemically disposed of.

(7) This device should not be used in any type of fluid such as water, oil, organic solvent and etc. When washing is required, IPA (Isopropyl Alcohol) should be used.

(8) When the LEDs are in operation the maximum current should be decided after measuring the package temperature.

(9) LEDs must be stored properly to maintain the device. If the LEDs are stored for 3 months or more after being shipped from Seoul Semiconductor, a sealed container with vacuum atmosphere should be used for storage.

(10) The appearance and specifications of the product may be modified for improvement without notice.

Precaution for Use

- (11) Long time exposure of sun light or occasional UV exposure will cause silicone discoloration.
- (12) Attaching LEDs, do not use adhesive that outgas organic vapor.
- (13) The driving circuit must be designed to allow forward voltage only when it is ON or OFF. If the reverse voltage is applied to LED, migration can be generated resulting in LED damage.
- (14) Please do not touch any of the circuit board, components or terminals with bare hands or metal while circuit is electrically active.
- (15) VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can penetrate silicone encapsulants of LEDs and discolor when exposed to heat and photonic energy. The result can be a significant loss of light output from the fixture. Knowledge of the properties of the materials selected to be used in the construction of fixtures can help prevent these issues.
- (16) LEDs are sensitive to Electro-Static Discharge (ESD) and Electrical Over Stress (EOS). Below is a list of suggestions that Seoul Semiconductor purposes to minimize these effects.

I . ESD (Electro Static Discharge)

Electrostatic discharge (ESD) is defined as the release of static electricity when two objects come into contact. While most ESD events are considered harmless, it can be an expensive problem in many industrial environments during production and storage. The damage from ESD to LEDs may cause the product to demonstrate unusual characteristics such as:

- Increase in reverse leakage current lowered turn-on voltage
- Abnormal emissions from the LED at low current

The following recommendations are suggested to help minimize the potential for an ESD event. One or more recommended work area suggestions:

- Ionizing fan setup
- ESD table/shelf mat made of conductive materials
- ESD safe storage containers

One or more personnel suggestion options:

- Antistatic wrist-strap
- Antistatic material shoes
- Antistatic clothes

Environmental controls:

- Humidity control (ESD gets worse in a dry environment)

Precaution for Use

II . EOS (Electrical Over Stress)

Electrical Over-Stress (EOS) is defined as damage that may occur when an electronic device is subjected to a current or voltage that is beyond the maximum specification limits of the device.

The effects from an EOS event can be noticed through product performance like:

- Changes to the performance of the LED package
(If the damage is around the bond pad area and since the package is completely encapsulated the package may turn on but flicker show severe performance degradation.)
- Changes to the light output of the luminaire from component failure
- Components on the board not operating at determined drive power

Failure of performance from entire fixture due to changes in circuit voltage and current across total circuit causing trickle down failures. It is impossible to predict the failure mode of every LED exposed to electrical overstress as the failure modes have been investigated to vary, but there are some common signs that will indicate an EOS event has occurred:

- Damaged may be noticed to the bond wires (appearing similar to a blown fuse)
- Damage to the bond pads located on the emission surface of the LED package
(shadowing can be noticed around the bond pads while viewing through a microscope)
- Anomalies noticed in the encapsulation and phosphor around the bond wires.
- This damage usually appears due to the thermal stress produced during the EOS event.

III . To help minimize the damage from an EOS event Seoul Semiconductor recommends utilizing:

- A surge protection circuit
- An appropriately rated over voltage protection device
- A current limiting device



Company Information

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Company Information

Seoul Semiconductor (www.SeoulSemicon.com) manufactures and packages a wide selection of light emitting diodes (LEDs) for the automotive, general illumination/lighting, Home appliance, signage and back lighting markets. The company is the world's fifth largest LED supplier, holding more than 10,000 patents globally, while offering a wide range of LED technology and production capacity in areas such as "nPola", "Acrich", the world's first commercially produced AC LED, and "Acrich MJT - Multi-Junction Technology" a proprietary family of high-voltage LEDs.

The company's broad product portfolio includes a wide array of package and device choices such as Acrich and Acirch2, high-brightness LEDs, mid-power LEDs, side-view LEDs, and through-hole type LEDs as well as custom modules, displays, and sensors.

Legal Disclaimer

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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