



PRODUCT DATASHEET



- PLCC2 Top View SMD
- 2835 0.70t
- PC Amber 590nm



2835 0.70t Series



FEATURES:

- Package: PLCC2 Single Colour Top View SMD
- Forward Current: 60mA
- Forward Voltage (typ.): 3.2V
- Luminous Flux (typ.): 24lm@60mA
- Colour: PC Amber
- Dominant Wavelength (typ.): 591nm
- Viewing Angle: 120°
- Materials:
 - Resin: Silicone (Yellow Diffused)
 - Finishing: Ag plated
- Operating Temperature: -40~+85°C
- Storage Temperature: -40~+85°C
- ESD (HBM): 1000V
- Grouping Parameters:
 - Forward Voltage
 - Luminous Flux
 - CIE Chromaticity
- Soldering Methods: Reflow
- MSL Level: acc. to JEDEC Level 5a
- Packing: 8mm tape with max.4000/reel, ø178mm (7")

N0A69S55PC

2835 0.70t Series

APPLICATIONS:

- Backlighting
- Indication Light
- Switch light
- Dashboard
- Decoration Lighting

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CHARACTERISTICS:

Absolute Maximum Characteristics (T_a=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	lf	60	mA
Peak Forward Current Duty 1/10; width 0.1ms	IFP	150	mA
Power Dissipation	PD	0.2	W
Reverse Voltage	V _R	5	V
Reverse Current @8V	IR	10	μΑ
Electrostatic Discharge (HBM)	ESD	1000	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	Тѕтб	-40~+85	°C
Soldering Temperature	Tsol	260 for 5S	°C

Doromotor	Sumbol	Values			Unit	Test	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Forward Voltage	VF	2.8	3.2	3.6	V	I⊧=60mA	
Luminous Flux	Φv	20	24		lm	I⊧=60mA	
Chromaticity Coordinates	х		0.5700				
	Y		0.4200			l⊧=60mA	
Colour Temperature	ССТ	1600	1750	2000	К	I⊧=60mA	
Dominant Wavelength	λ_{D}	588	591	595	nm	I⊧=60mA	
Viewing Angle	2 0 1/2		120		deg	I⊧=60mA	

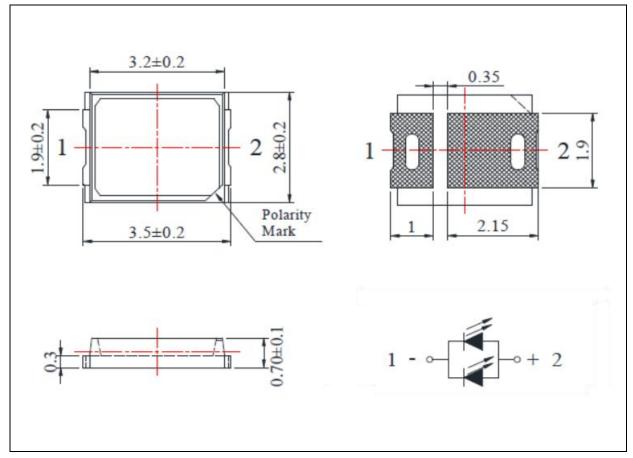
Electrical & Optical Characteristics (T_a=25°C)

1. Luminous intensity (Iv) $\pm 10\%$, Forward Voltage (V_F) $\pm 0.1V$.



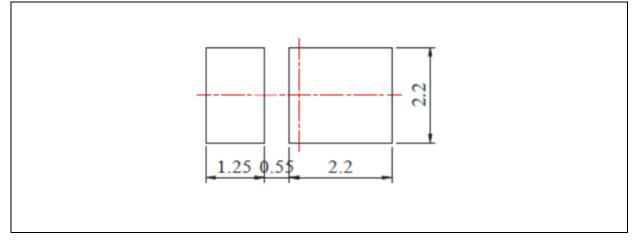
OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.2mm, unless otherwise noted.

Recommended Soldering Pad Dimension:



- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.1 mm with angle tolerance $\pm 0.5^{\circ}$.



BINNING GROUPS:

Forward Voltage Classifications (I_F = 60mA):

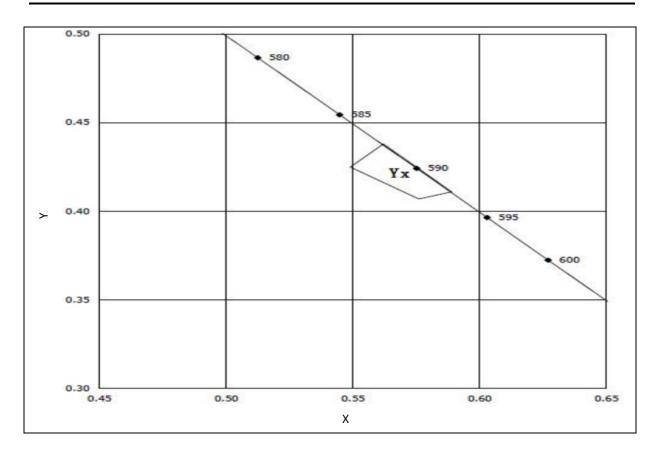
Code	Min.	Max.	Unit
VF2830	2.8	3.0	
VF3032	3.0	3.2	V
VF3234	3.2	3.4	

Luminous Flux Classifications (I_F = 60mA):

Code	Min.	Max.	Unit
L2022	20	22	
L2224	22	24	lm
L2426	24	26	



CIE CHROMATICITY DIAGRAM:



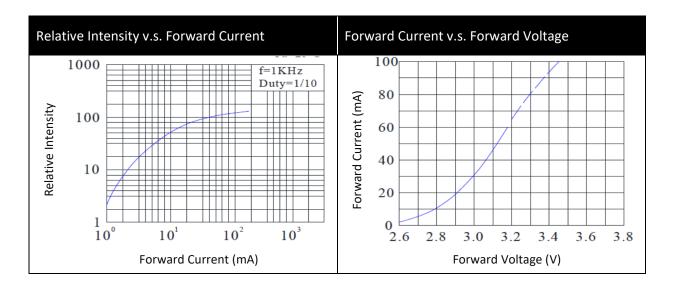
Chromaticity Coordinates Classifications (I_F = 60mA):

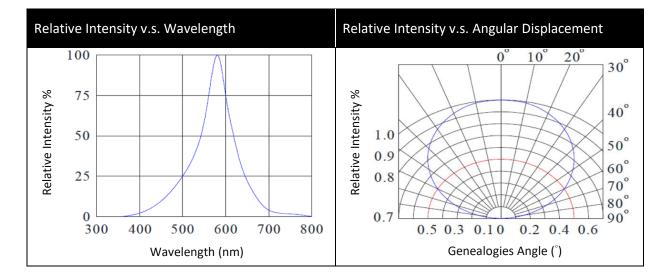
	1 2		3		4			
	Х	Y	Х	Y	Х	Υ	Х	Y
Yx	0.5760	0.4070	0.5490	0.4250	0.5620	0.4380	0.5890	0.4110

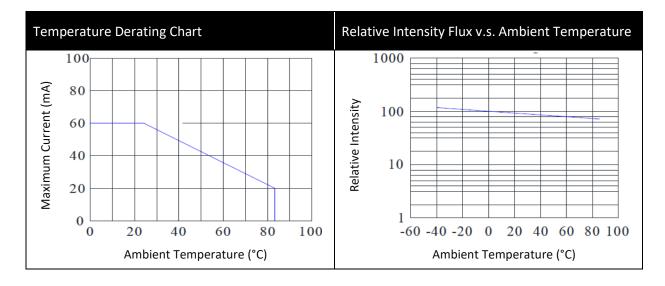
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ELECTRO-OPTICAL CHARACTERISTICS:

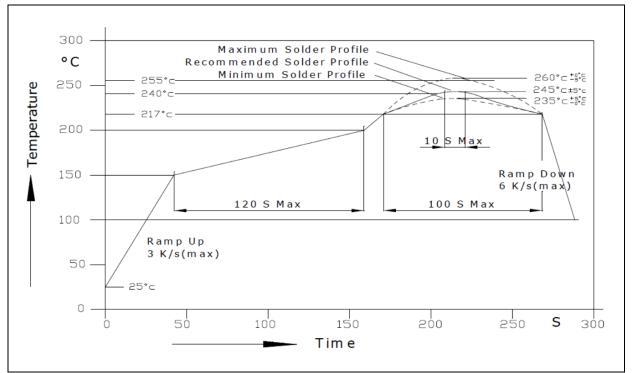








RECOMMENDED SOLDERING PROFILE:



Reflow Solder:

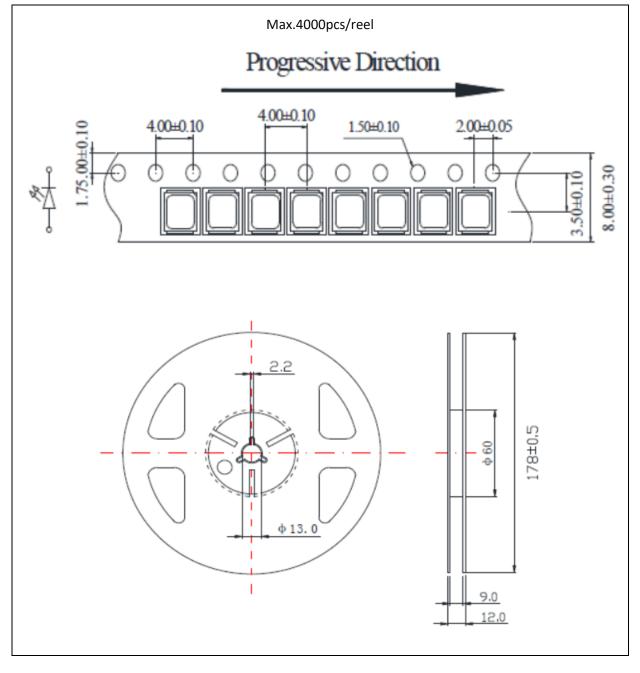
Note:

- 1. Recommend reflow temperature 240°C. The maximum soldering temperature should be limited to 260°C.
- 2. Maximum reflow soldering: 2 times.
- 3. Before, during, and after soldering, should not apply stress on the components and PCB board.





Reel Dimension:



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PRECAUTIONS OF USE:



Storage:

It is recommended to store the products in the following conditions:

- Humidity: 60% R.H. Max.
- Temperature: 5°C~30°C (41°F ~86°F).

Shelf life in sealed bag: 12 months at 5°C~30°C and <60% R.H.

Once the package is opened, the products should be used within 24 hours. Otherwise, they should be kept in a damp-proof box with descanting agent <10% R.H. and apply baking before use.

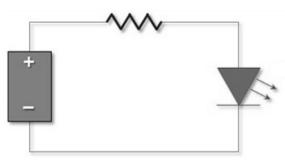
Baking:

It is recommended to bake the LED before soldering if the pack has been unsealed for longer than 24hrs. The suggested baking conditions are as followings:

• 60±5°C x 24hrs and <5%RH, taped / reel package.

It's normal to see slight color fading of carrier (light yellow) after baking in process.

Testing Circuit:



Must apply resistor(s) for protection (over current proof).

Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED carrier / package. Avoid putting any stress force directly on to the LED lens.

ESD (Electrostatic Discharge):

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing the LED all time. All devices, equipment, machinery, work tables, and storage racks must be properly grounded.

In the events of manual working in process, make sure the devices are well protected from ESD at any time.



REVISION RECORD:

Version	Date	Summary of Revision
A1.0	12/09/2023	Datasheet set-up.
A1.1	04/03/2025	New datasheet format.