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Surface Mount Yellow/Green LED
3.5mm × 2.8mm

multicomp PRO

RoHS Compliant



Features

- 3.5mm × 2.8mm SMT LED, 1.9mm Thickness.
- Wide Viewing Angle.
- Ideal for Backlight and Indicator.

Applications

- Automotive: Backlighting in dashboard and switch.
- Telecommunication: Indicator and Backlighting in telephone and fax.
- Flat Backlight for LCD switch and symbol.

Device Selection Guide

Part No.	Chip		Lens Colour
MP005918	Material	Emitted Colour	Water Clear
	(InGaAlP)	Green	

Absolute Maximum Ratings at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	62	mW
Forward Current	I_F	25	mA
Peak Forward Current*1	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40°C To +85°C	
Storage Temperature	T_{stg}	-40°C To +85°C	

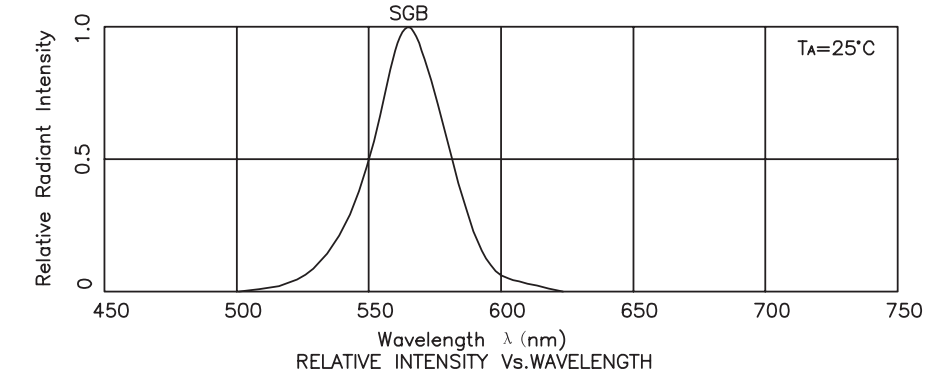
Notes:
*1: Pulse width≤0.1ms, Duty cycle≤1/10

Electrical / Optical Characteristics at T_A=25°C

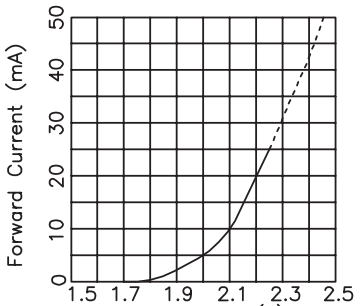
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V_F	1.8	—	2.6	V	IF=20mA
Reverse Current	I_R	—	—	10	μA	VR=5V
Dominate Wavelength	λ_D	568	—	576	nm	IF=20mA
Luminous Intensity	I_V	100	—	225	mcd	IF=20mA
Viewing Angle	2θ1/2	—	120	—	Deg.	IF=20mA

Remarks:
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:
1. wavelength: ±1nm
2. Luminous Intensity: ±15%
3. Forward Voltage: ±0.1V

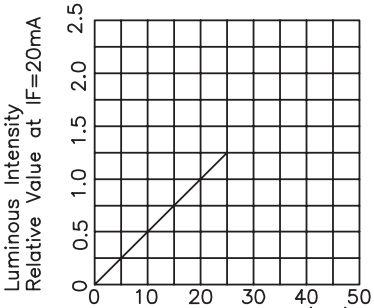
Typical Electrical/Optical Characteristics Curves



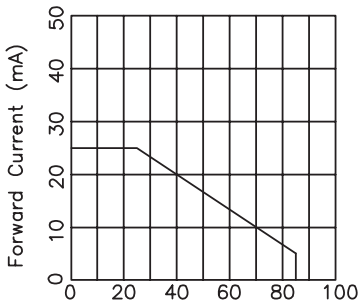
RELATIVE INTENSITY Vs.WAVELENGTH



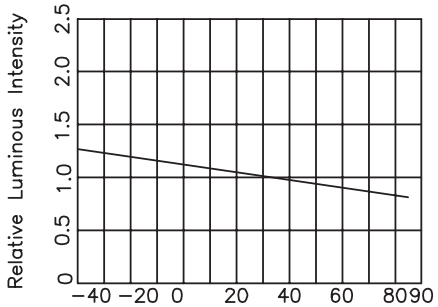
FORWARD CURRENT Vs.
FORWARD VOLTAGE



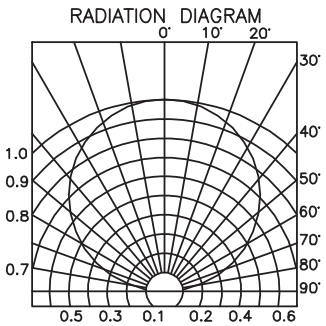
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT Vs.
DERATING CURVE

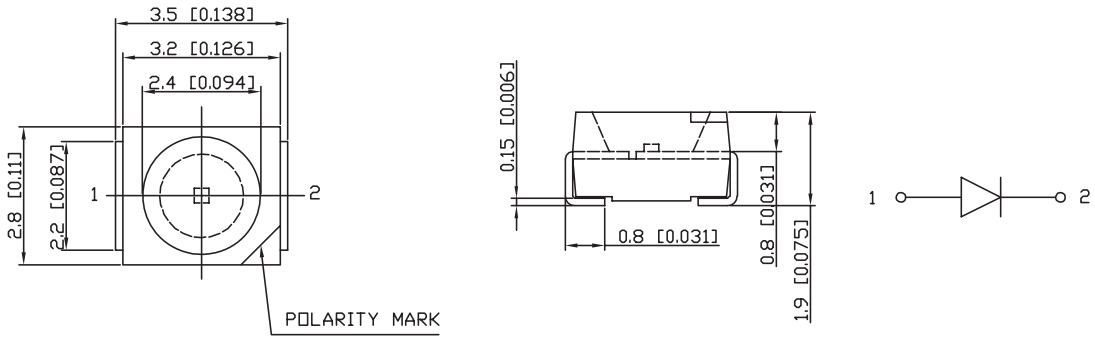


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



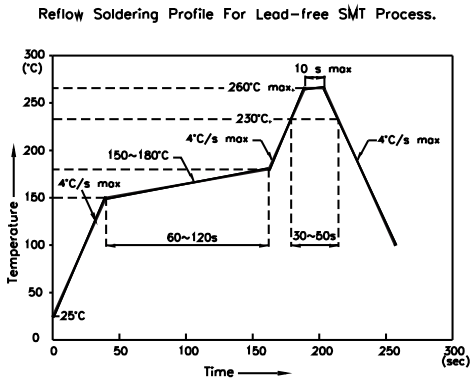
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Diagram



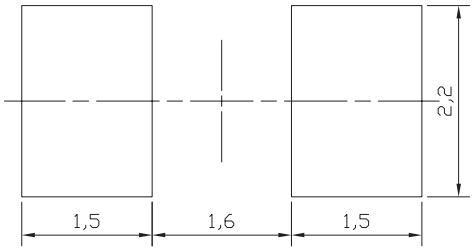
Notes:
1. All dimensions are in millimeters.
2. Tolerance is ±0.15 unless otherwise noted.
3. Specifications are subject to change without notice.

Soldering Profile



Notes
1. We recommend the reflow temperature 245°C. (±5°C) The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern



Part Number Table

Description	Part Number
SMD LED, 3528, Yellow Green, 225mcd, 120°	MP005918

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