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MP005933

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Surface Mount Red / Yellow Green Multicolour Chip LED - 0805

multicomp PRO

RoHS Compliant



Features

- 2mm × 1.25mm SMT LED, 0.7mm Thickness.
- Wide Viewing Angle.
- Ideal for Backlight and Indicator.
- Various Colours and Lens Types Available.

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
	Material	Emitted Colour	
MP005933	(InGaAlP)	Red	Water Clear
	(InGaAlP)	Green	

Absolute Maximum Ratings at T_A=25°C

Parameter	Symbol	Red	Green	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

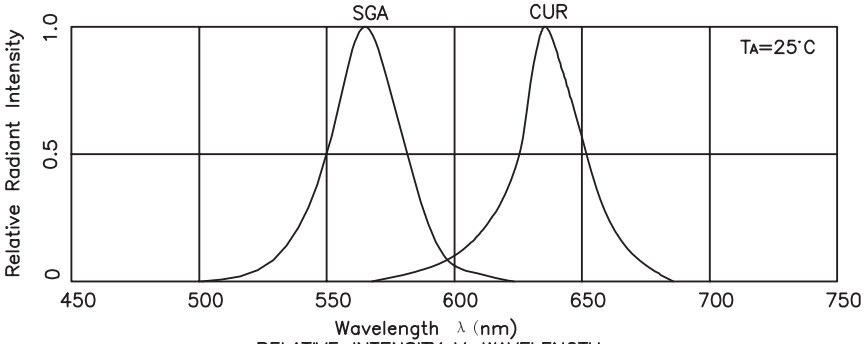
Parameter	Symbol	Device	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V_F	Red Green	—	2.2 2.2	2.5 2.5	V	IF=20mA
Reverse Current	I_R		—	—	10	μA	VR=5V
Dominate Wavelength	λ_D		625 568	—	637 576	nm	IF=20mA
Luminous Intensity	I_V		48 62	—	130 130	mcd	IF=20mA
Viewing Angle	2θ1/2		—	120	—	Deg.	IF=20mA

Remarks:

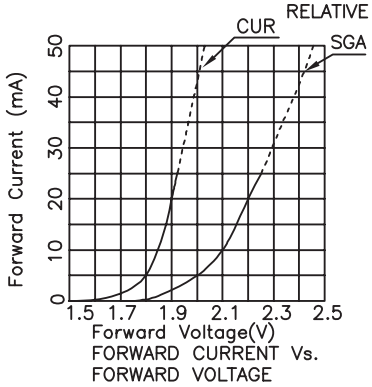
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

1. wavelength: ±1nm
2. Luminous Intensity: ±15%
3. Forward Voltage: ±0.1V

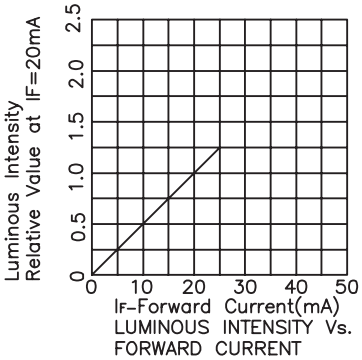
Typical Electrical/Optical Characteristics Curves



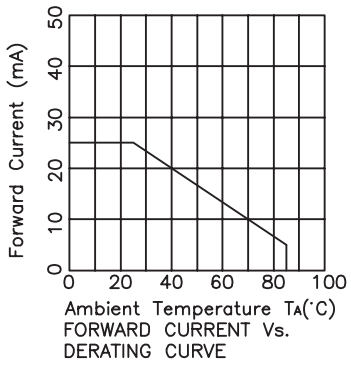
RELATIVE INTENSITY Vs.WAVELENGTH



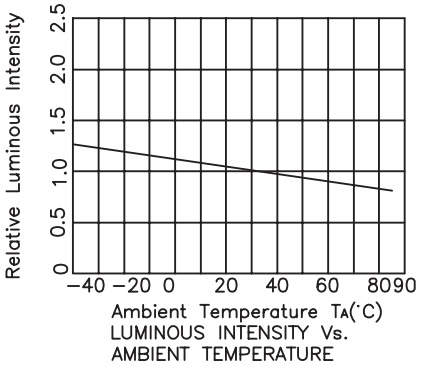
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

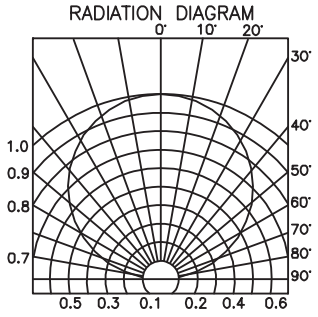


FORWARD CURRENT Vs.
DERATING CURVE



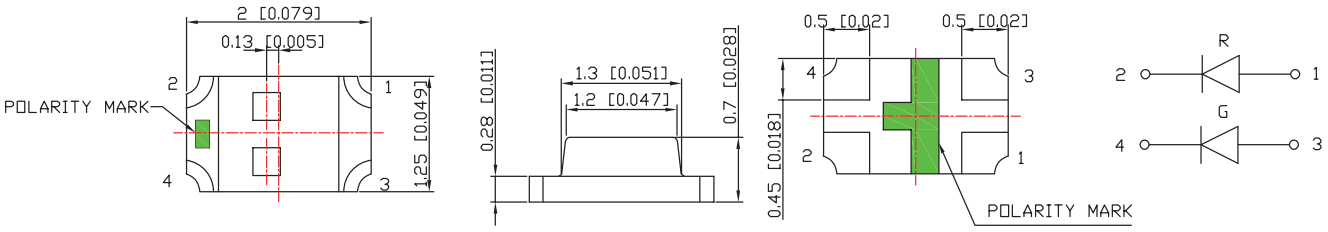
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

RADIATION DIAGRAM



Surface Mount Red / Yellow Green Multicolour Chip LED - 0805

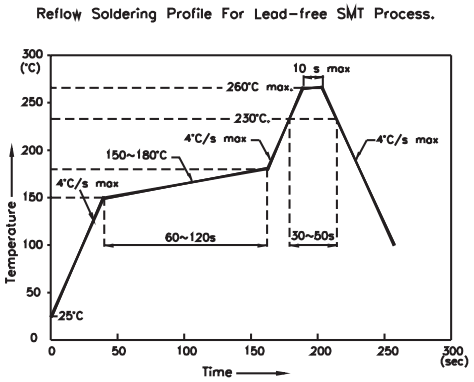
Diagram



Notes:

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

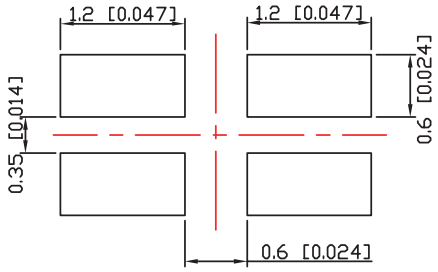
Soldering Profile



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

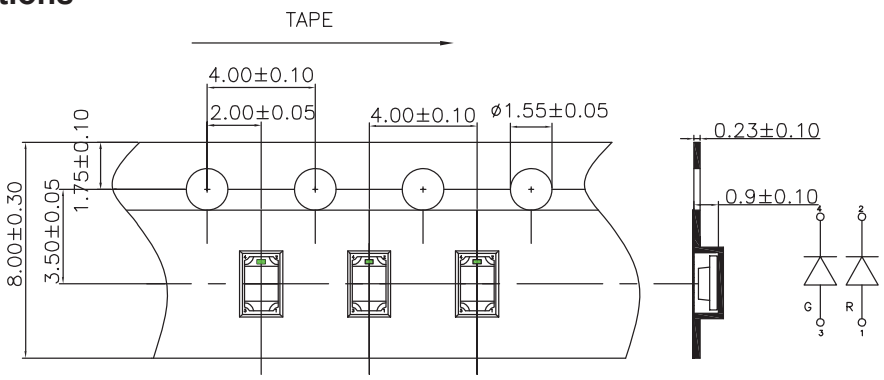


Part Number Table

Description	Part Number
SMD Chip LED, 0805, Red / Yellow Green, 130mcd, 120°	MP005933

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Tape Specifications



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