



Features

- 3mm × 1mm SMD LED, 1.4mm thickness
- Low power consumption
- Wide view angle

**RoHS
Compliant**

Applications

- Ideal for back light and indicator
- Various colours and lens types available

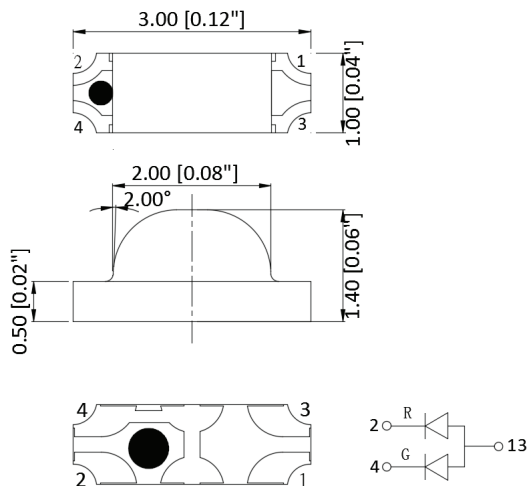
Specifications

Emitting Colour : Red/Green
 Lens Colour : Water transparent
 Material : AlGaInP/ InGaN/GaN

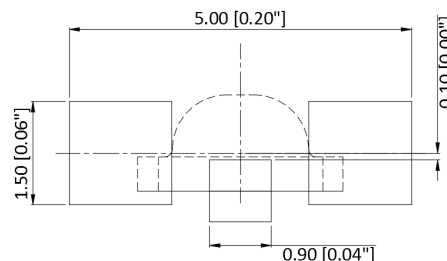
Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Green	Unit
Forward current	I _F	30		mA
Reverse voltage	V _R	5		V
Power Dissipation	P _D	72	111	mW
Operating Temperature	T _{op}	-40 to +85		°C
ESD(Human-body mode)	-	4	2	KV
Storage Temperature	T _{STG}	-40 to +85		°C
Peak pulsing current (1/8 duty f=1kHz)	I _{FP}	30		mA

Electro-Optical Characteristicss at T _A = 25°C							
Parameter	Test Condition	Symbol		Min.	Typ.	Max.	Unit
Wavelength at peak emission	If=20mA	λp	Red	--	635	--	nm
			Green	--	525	--	
Spectral half bandwidth		Δλ	Red	--	20	--	
			Green	--	25	--	
Dominant wavelength		λd	Red	630	--	640	
			Green	517.5	--	527.5	
Forward Voltage		VF	Red	1.8	--	2.4	V
			Green	2.8	--	3.7	
Luminous Intensity	IV	Red	63	--	160	mcd	
		Green	320	--	800		
Viewing angle at 50% Iv	If=10mA	2θ1/2		--	120	--	Deg.
Reverse current	Vr=5V	Ir		--	--	10	μA

Package outlines



Recommend Pad Layout



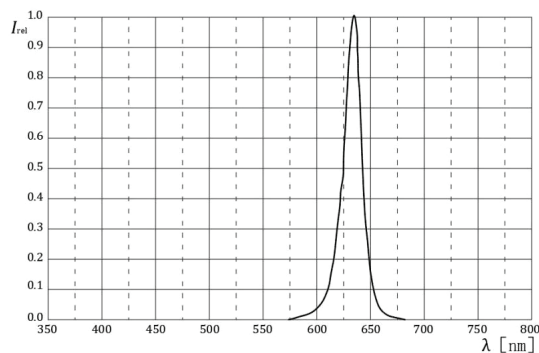
Dimensions : Millimetres (Inches)

Notes:

Tolerance is $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted

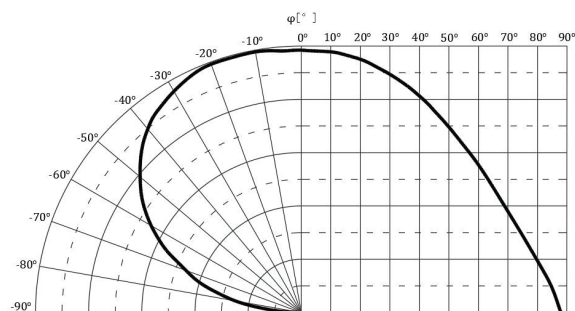
Relative Spectral Emission (Red)

IF=20mA, Ta=25°C

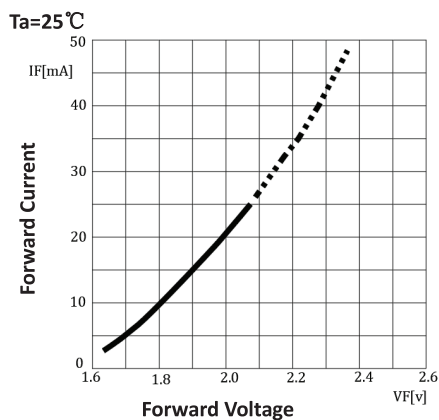


Radiation Characteristics

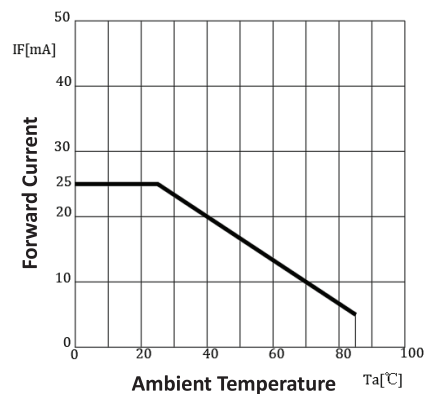
IF=10mA, Ta=25°C



Forward Current vs Forward Voltage

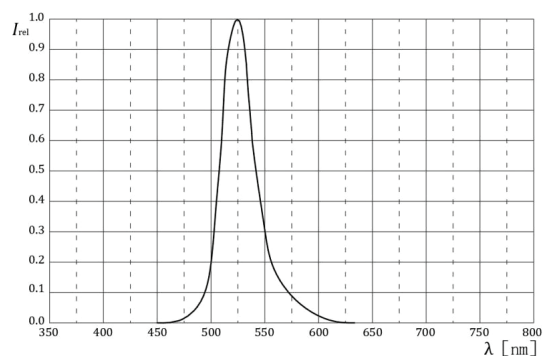


Forward Current Derating Curve



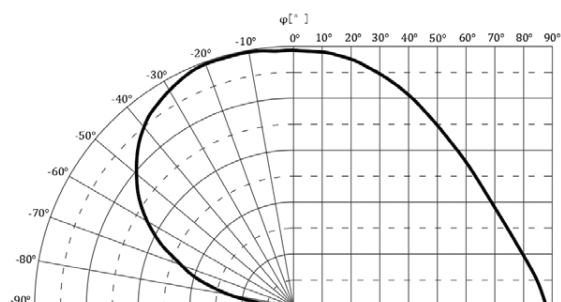
Relative Spectral Emission (Green)

IF=20mA, Ta=25°C



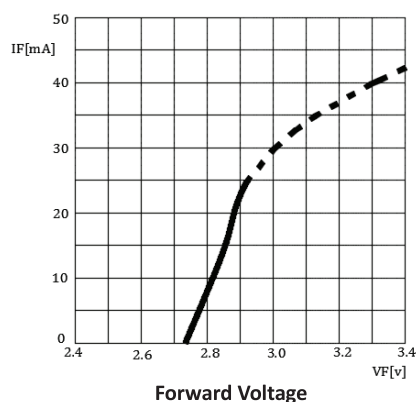
Radiation Characteristics

IF=10mA, Ta=25°C

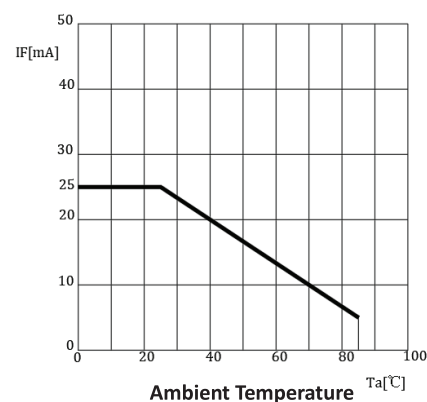


Forward Current vs Forward Voltage

Ta=25°C

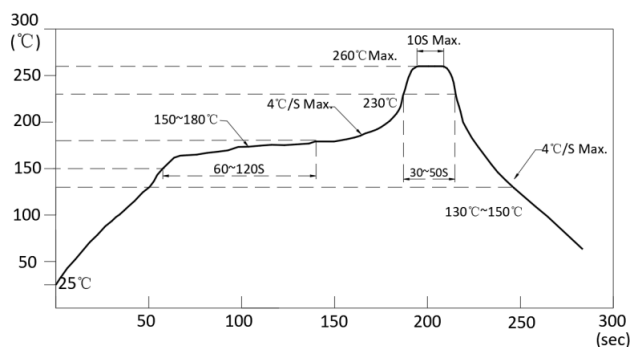


Forward Current Derating Curve



Reflow Profile

Reflow Temp/Time



Notes:

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

Part Number Table

Description	Part Number
Multi Colour Led, Common Anode, Red and Green, SMD 1204, 1.4mm	MP017052

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