



Features

- 3mm × 1mm SMD LED, 1.9mm thickness
- Low power consumption
- Wide view angle

Applications

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

**RoHS
Compliant**

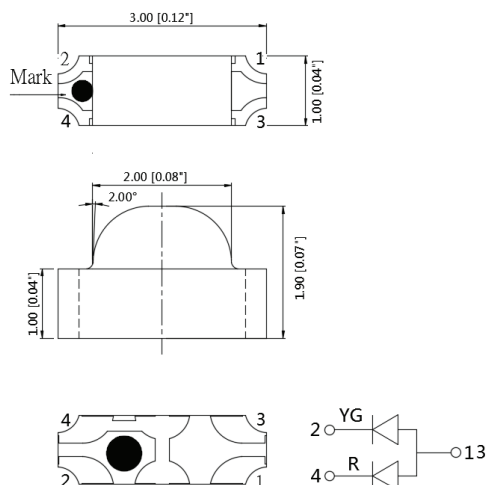
Specifications

Emitting Colour : Red/Yellow Green
 Lens Colour : Water transparent
 Material : AlGaInP/ AlGaInP

Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Yellow Green	Unit
Forward current	I _F	30		mA
Reverse voltage	V _R	5		V
Power Dissipation	P _D	72		mW
Operating Temperature	T _{op}	-40 to +85		°C
ESD(Human-body mode)	-	4		KV
Storage Temperature	T _{STG}	-40 to +85		°C
Peak pulsing current (1/8 duty f=1kHz)	I _{FP}	125		mA

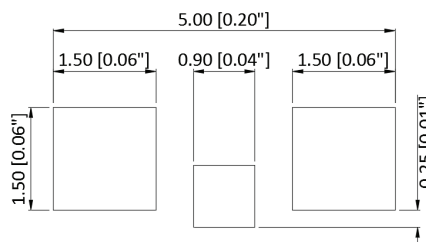
Electro-Optical Characteristicss at T _A = 25°C							
Parameter	Test Condition	Symbol		Min.	Typ.	Max.	Unit
Wavelength at peak emission	If=20mA	λ _p	Red	--	635	--	nm
			Yellow Green	--	573	--	
Δλ		Red	--	20	--		
		Yellow Green	--	20	--		
Dominant wavelength		λ _d	Red	630	--	650	
			Yellow Green	565	--	576	
Forward Voltage		V _F	Red	1.8	--	2.4	V
			Yellow Green	1.8	--	2.4	
Luminous Intensity		I _V	Red	63	80	160	mcd
			Yellow Green	32	40	80	
Viewing angle at 50% I _v	If=10mA	2θ1/2		--	120	--	Deg.
Reverse current	V _r =5V	I _r		--	--	10	μA

Package outlines



Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.

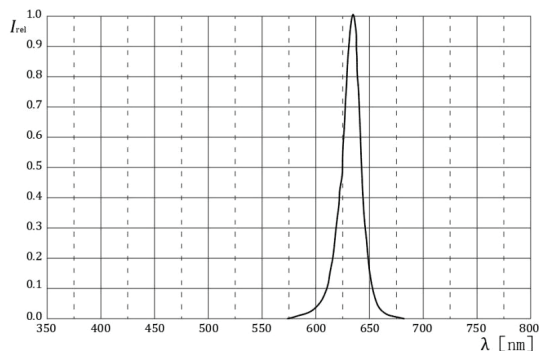
Recommend Pad Layout



Dimensions : Millimetres (Inches)

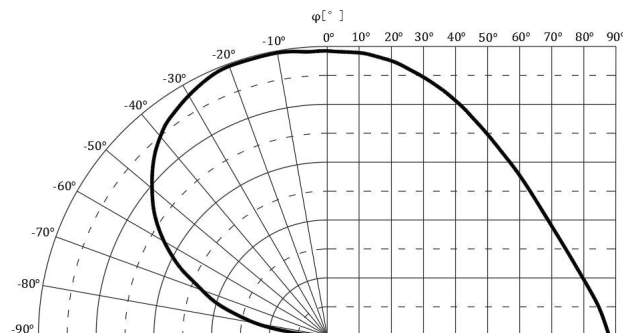
Relative Spectral Emission (Red)

IF=20mA, Ta=25°C

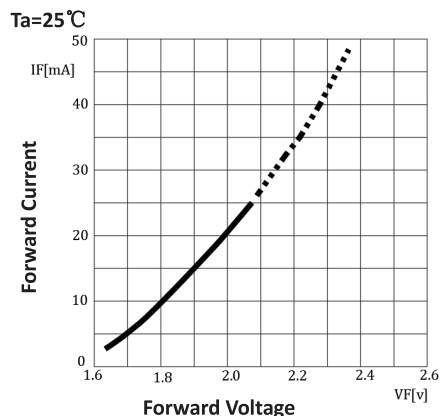


Radiation Characteristics

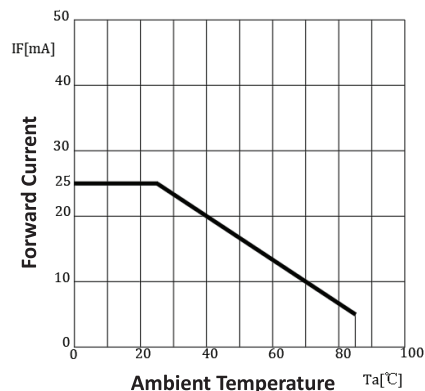
IF=10mA, Ta=25°C



Forward Current vs Forward Voltage

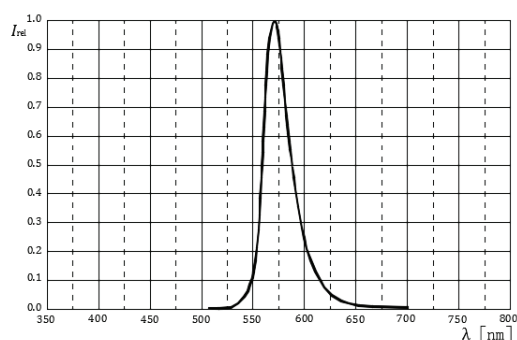


Forward Current Derating Curve



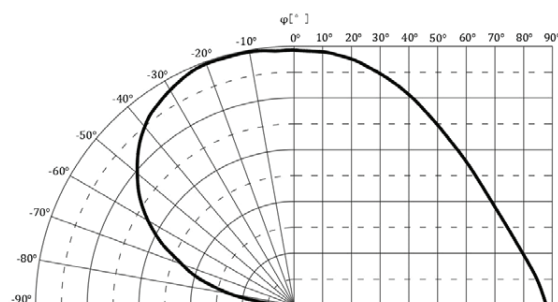
Relative Spectral Emission (Yellow Green)

$I_F = 20\text{mA}, T_a = 25^\circ\text{C}$



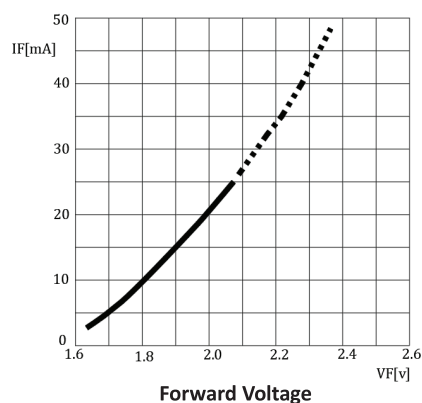
Radiation Characteristics

$I_F = 10\text{mA}, T_a = 25^\circ\text{C}$

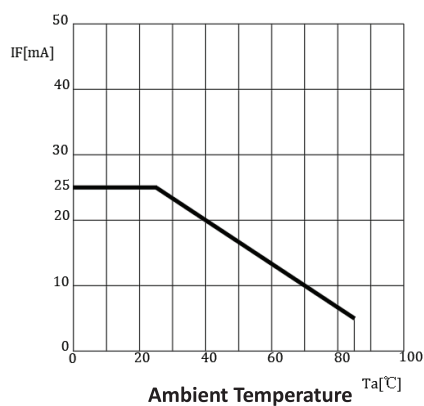


Forward Current vs Forward Voltage

$T_a = 25^\circ\text{C}$

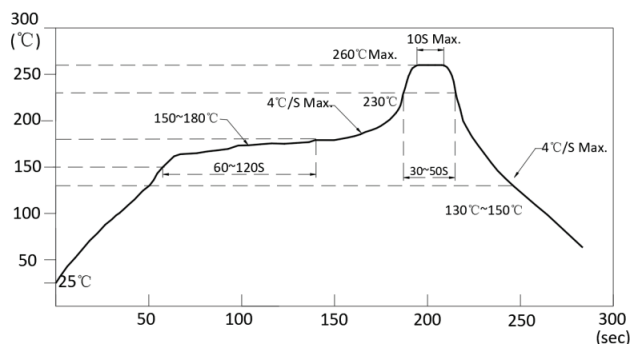


Forward Current Derating Curve



Reflow Profile

Reflow Temp/Time



Notes:

- We recommend the reflow temperature 245°C ($\pm 5^{\circ}\text{C}$). 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 Yellow Green, SMD 1204, 1.9mm, 30mA	MP017054

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