



Features

- 1.62mm × 1.5mm SMD LED, 0.6mm 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/Yellow Green
 Lens Colour : Water transparent
 Material : AlGaInP/ AlGaInP

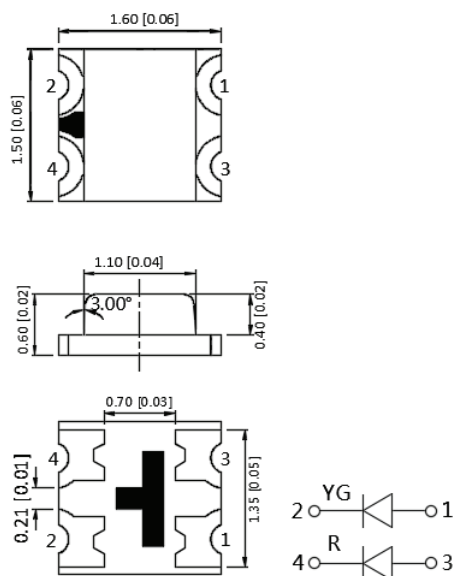
Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Red	Yellow Green	Unit
Forward current	I _F	20		mA
Reverse voltage	V _R	5		V
Power Dissipation	P _D	48		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}	30		mA

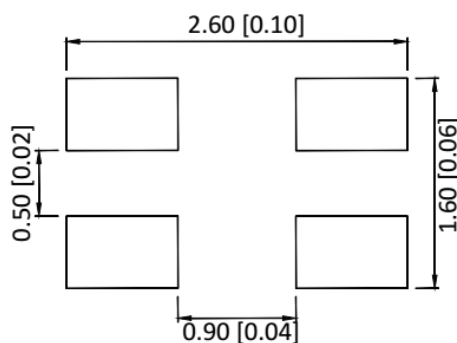
Electro-Optical Characteristicss at T_A = 25°C

Parameter	Test Condition	Symbol		Min.	Typ.	Max.	Unit	
Wavelength at peak emission	If=20mA	λp	Red	--	640	--	nm	
			Yellow Green	--	573	--		
Δλ		Red	--	20	--			
		Yellow Green	--	20	--			
Dominant wavelength		λd	Red	630	--		640	
			Yellow Green	565	--		576	
Forward Voltage		VF	Red	1.8	--	2.4	V	
			Yellow Green	1.8	--	2.4		
Luminous Intensity		IV	Red	63	--	160	mcd	
			Yellow Green	32	--	80		
Viewing angle at 50% Iv	If=10mA	2θ1/2		--	120	--	Deg.	
Reverse current	Vr=5V	Ir		--	--	10	μA	

Package outlines



Recommend Pad Layout

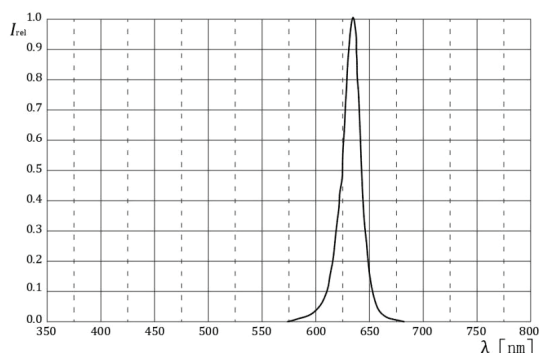


Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.

Dimensions : Millimetres (Inches)

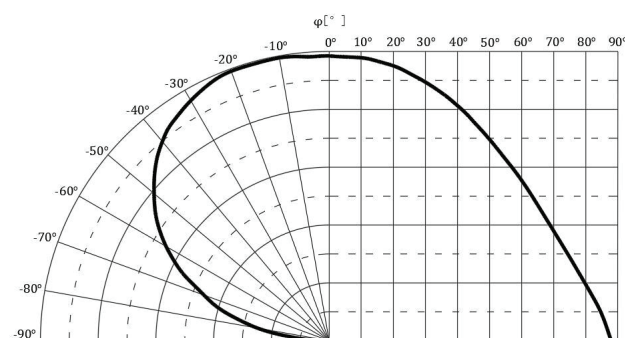
Relative Spectral Emission (Red)

IF=20mA, Ta=25°C

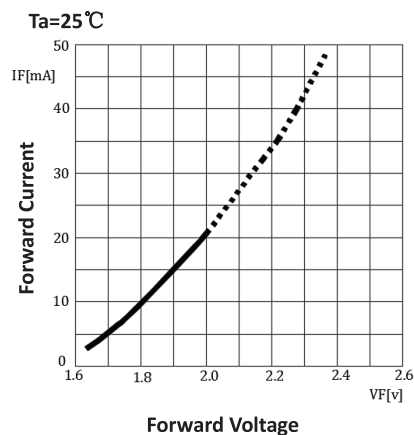


Radiation Characteristics

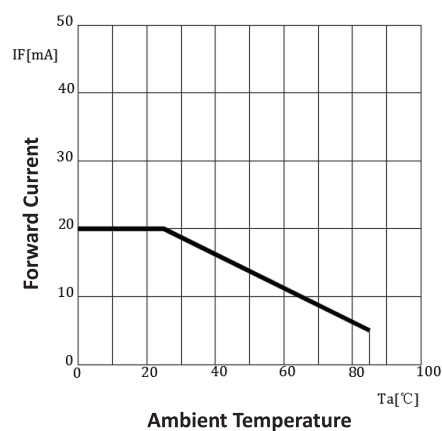
IF=10mA, Ta=25°C



Forward Current vs Forward Voltage

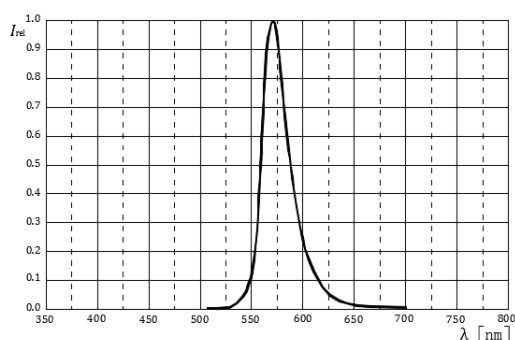


Forward Current Derating Curve



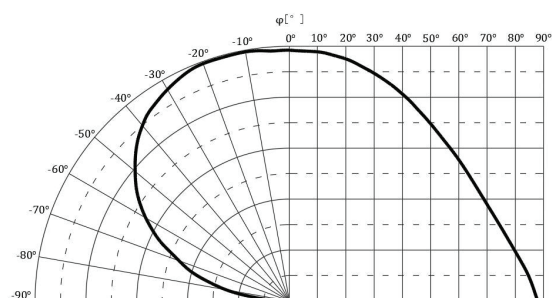
Relative Spectral Emission (Yellow Green)

IF=20mA, Ta=25°C

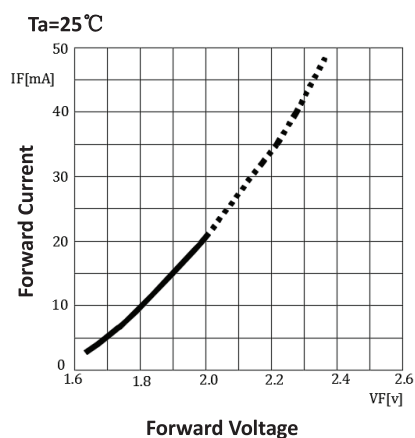


Radiation Characteristics

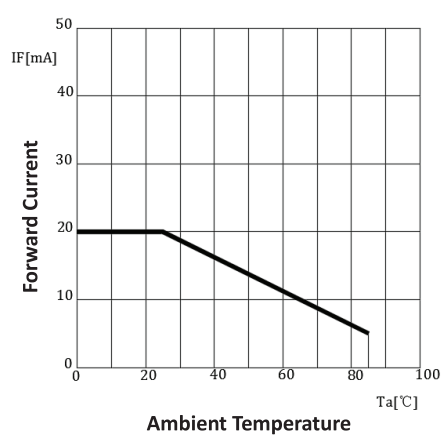
IF=10mA, Ta=25°C



Forward Current vs Forward Voltage

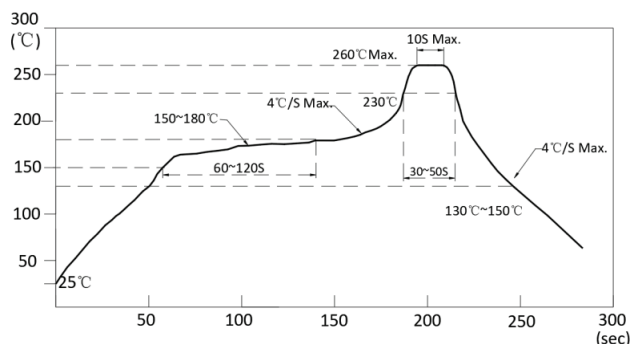


Forward Current Derating Curve



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, Red and Yellow Green, SMD 1615, 0.6mm, λ_p 635nm and 573nm	MP017061

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