

**RoHS
Compliant**



Features

- 1.6mm × 1.5mm SMD LED, 0.6mm thickness
- Low power consumption
- Wide view angle

Applications

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

Specifications

Emitted colour : Yellow / Yellow Green
Dice : AlGaInP
Lens colour : Water transparent

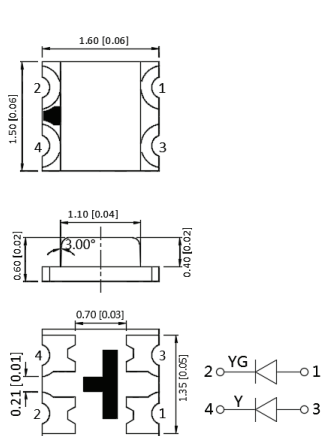
Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Value		Unit
		Yellow	Yellow Green	
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 (Huma-body mode)	-	4		KV
Storage Temperature	T _{STG}	-40 to +85		°C
Peak pulsing current (1/8 duty f=1kHz)	I _{fp}	125		mA

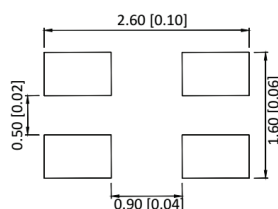
Electro / Optical Characteristics at T_A = 25°C

Parameter	Symbol		Test Conditions	Min.	Typ.	Max.	Unit
Wavelength at peak emission	λ _p	Y	I _F =20mA	-	593	-	nm
		YG		-	573	-	
Spectral half-bandWidth	Δλ	Y		-	20	-	
		YG		-	20	-	
Dominant wavelength	λ _d	Y		585	-	595	V
		YG		565	-	576	
Forward Voltage	V _f	Y		1.8	-	2.4	mcd
		YG		1.8	-	2.4	
Luminous intensity	I _v	Y		80	120	200	Deg.
		YG		32	45	63	
Viewing Angle at 50% I _v	2θ1/2		I _F =10mA	-	120	-	μA
Reverse Current	I _r		V _r =5V	-	-	10	

Package Outlines



Recommend Pad Layout

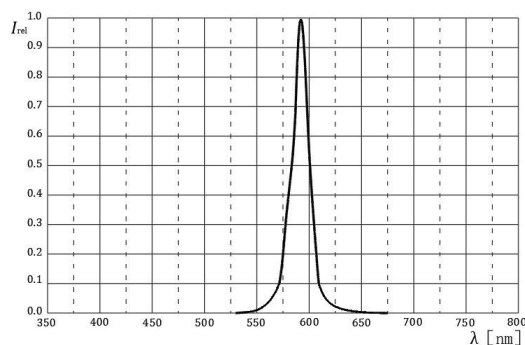


Dimensions : Millimetres (Inches)

Relative Spectral Emission (Yellow)

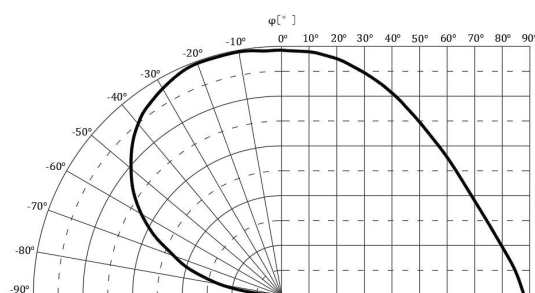
Relative Spectral Emission

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



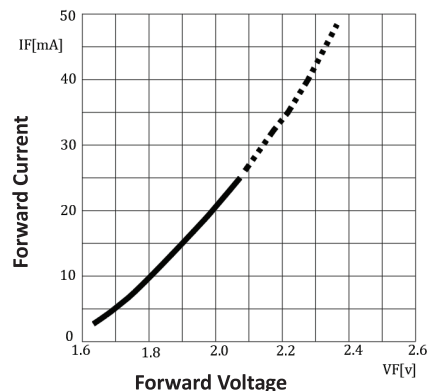
Radiation Characteristics

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

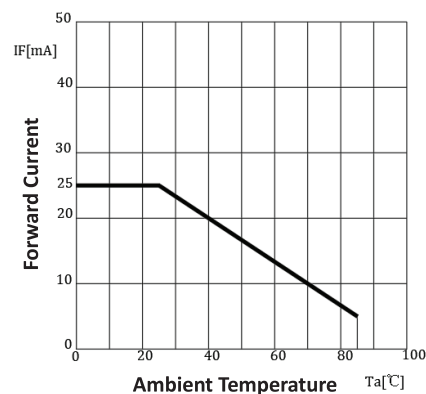


Forward Current vs Forward Voltage

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

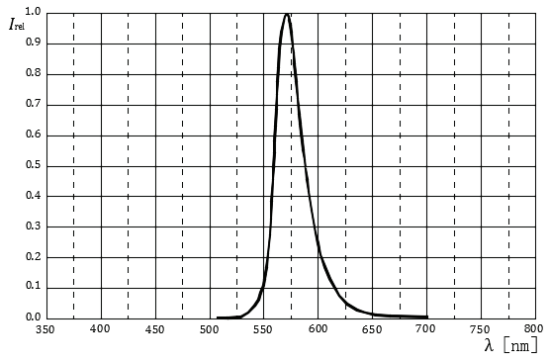


Forward Current Derating Curve



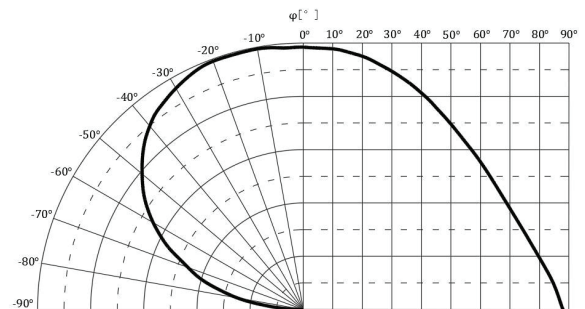
Relative Spectral Emission (Yellow Green)

IF=20mA, Ta=25°C



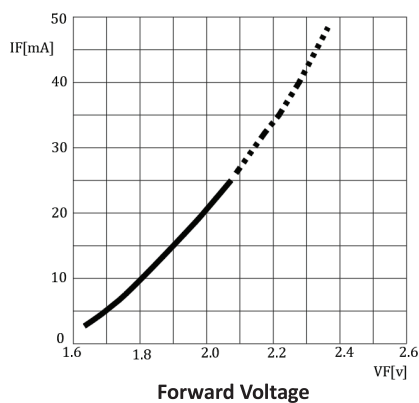
Forward Current vs Forward Voltage

IF=10mA, Ta=25°C

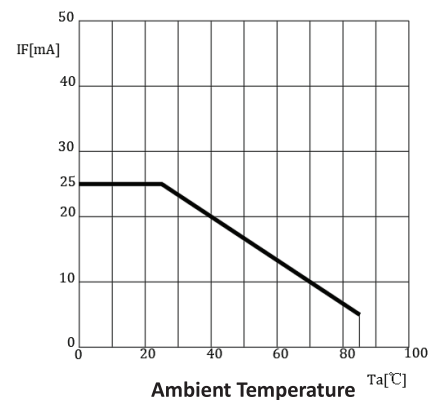


Forward Current vs Forward Voltage

Ta=25°C

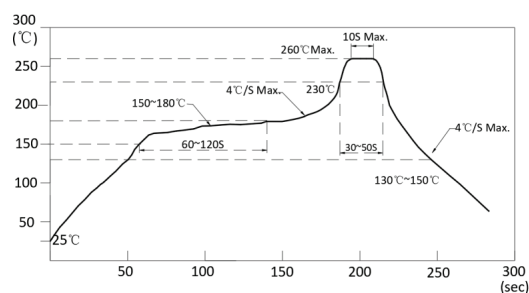


Forward Current Derating Curve



Reflow Profile

Reflow Temp/Time



Notes:

- We recommend the reflow temperature 245°C ($\pm 5^{\circ}\text{C}$). 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, 0606, Yellow and Yellow Green	MP017033

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