

**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 : Red / Green
 Dice : AlGaInP / InGaIn/GaN
 Lens colour : Water transparent

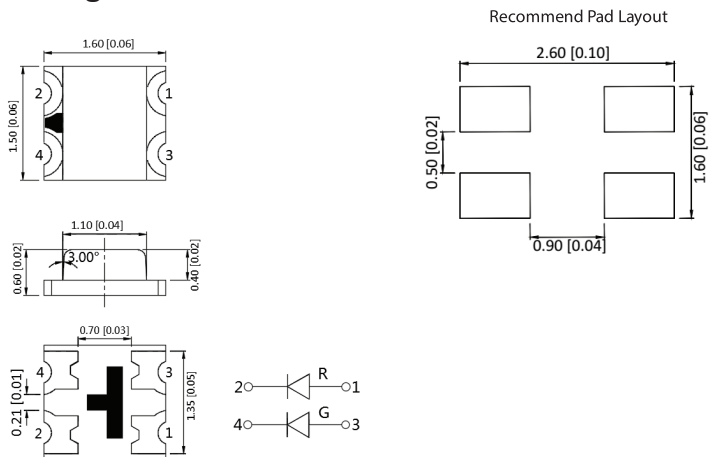
Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Value		Unit
		Red	Green	
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 (Huma-body mode)	-	4	2	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	R	I _F =20mA	-	630	-	nm
		G		-	540	-	
Spectral half-bandWidth	Δλ	R		-	20	-	
		G		-	25	-	
Dominant wavelength	λ _d	R		620	-	630	nm
		G		520	-	530	
Forward Voltage	V _f	R		1.8	-	2.4	V
		G		2.8	-	3.7	
Luminous intensity	I _v	R		80	140	200	mcd
		G		320	500	800	
Viewing Angle at 50% I _v	2θ1/2		I _F =10mA	-	120	-	Deg.
Reverse Current	I _r		V _r =5V	-	-	10	μA

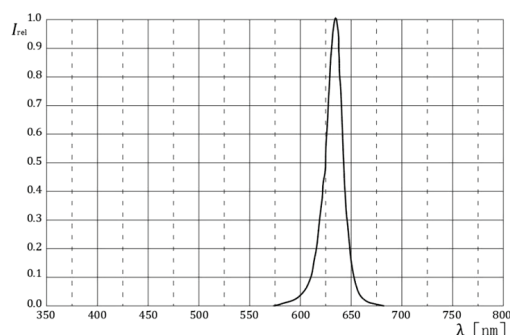
Package Outlines



Typical Electrical/Optical Characteristics Curves

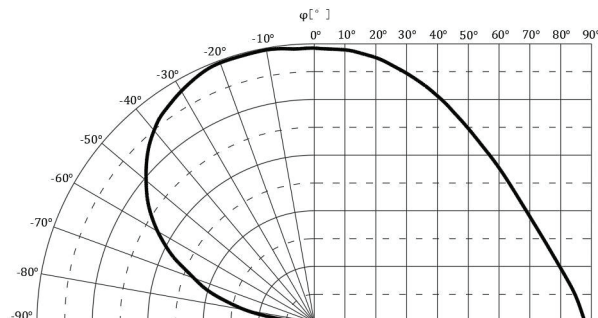
Relative Spectral Emission

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



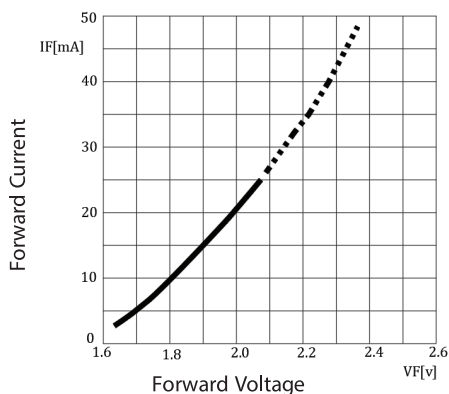
Radiation Characteristics

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

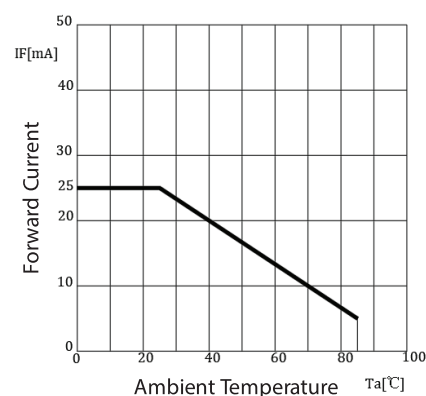


Forward Current vs Forward Voltage

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

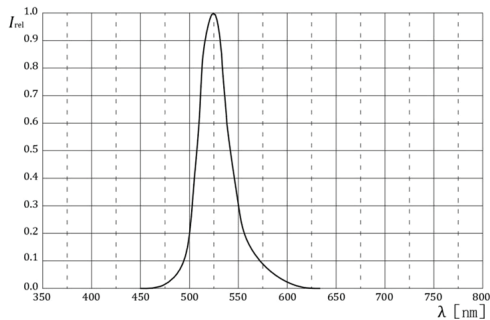


Forward Current Derating Curve



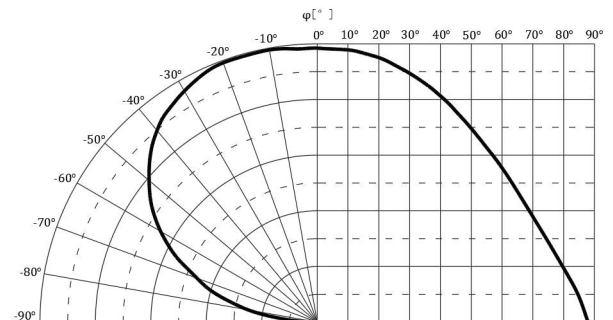
Relative Spectral Emission (Green)

IF=20mA, Ta=25°C



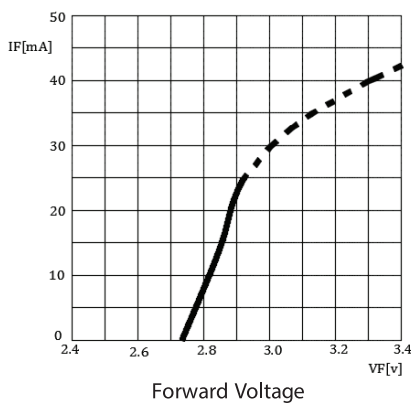
Forward Current vs Forward Voltage

IF=10mA, Ta=25°C

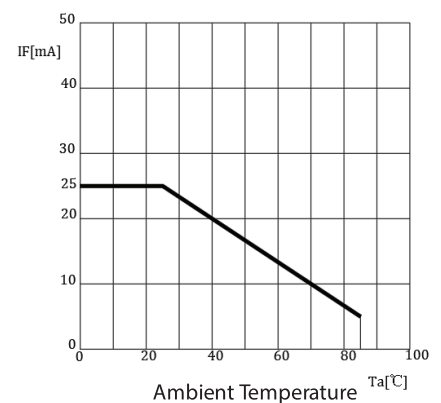


Forward Current vs Forward Voltage

Ta=25°C

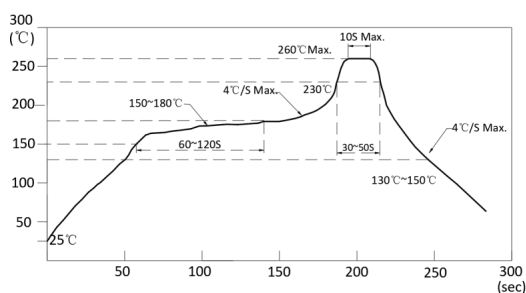


Forward Current Derating Curve



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, Red and Green	MP017031

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