

RoHS
Compliant



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

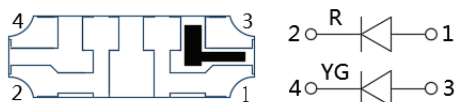
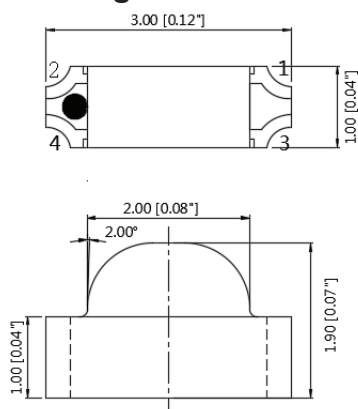
Specifications

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

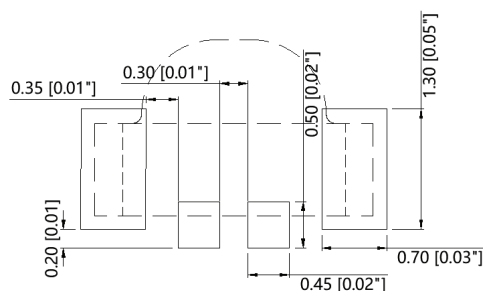
Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Yellow Green	Unit
Forward current	I _F	20		mA
Reverse voltage	V _R	5		V
Power Dissipation	P _D	48		mW
Operating Temperature	T _{op}	-40 to +85		°C
ESD(Human-body mode)	-	4		KV
Storage Temperature	T _{STG}	-40 to +85		°C
Peak pulsing current (1/8 duty f=1kHz)	I _{FP}	30		mA

Electro-Optical Charactericss at T _A = 25°C							
Parameter	Test Condition	Symbol		Min.	Typ.	Max.	Unit
Wavelength at peak emission	If=20mA	λp	Red	--	635	--	nm
			Yellow Green	--	573	--	
Spectral half bandwidth		Δλ	Red	--	20	--	
			Yellow Green	--	20	--	
Dominant wavelength		λd	Red	630	--	630	
			Yellow Green	565	--	576	
Forward Voltage		VF	Red	1.8	--	2.4	V
			Yellow Green	1.8	--	2.4	
Luminous Intensity	IV	Red	100	--	320	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



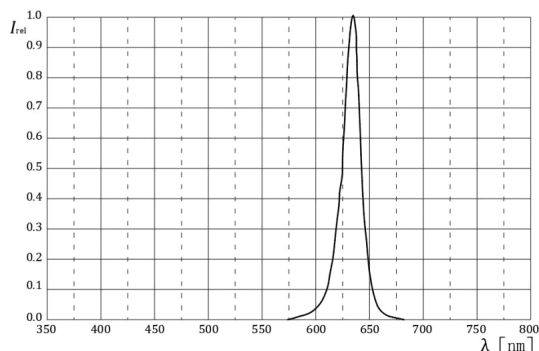
Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.

Dimensions : Millimetres (Inches)

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

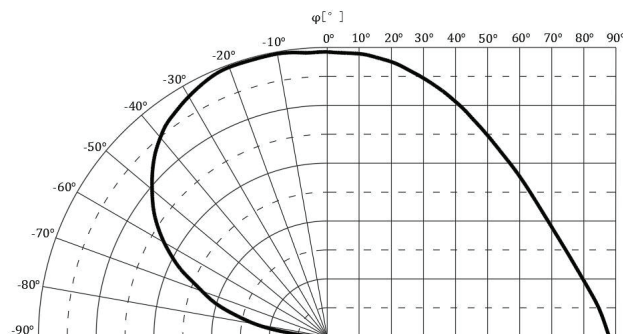
Relative Spectral Emission (Red)

IF=20mA, Ta=25°C



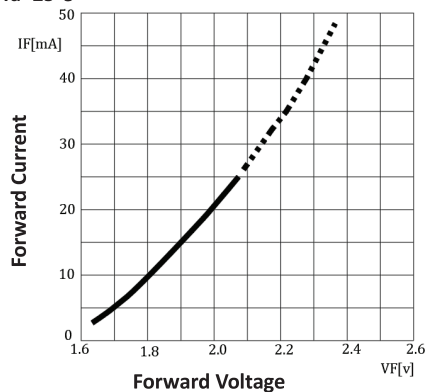
Radiation Characteristics

IF=10mA, Ta=25°C

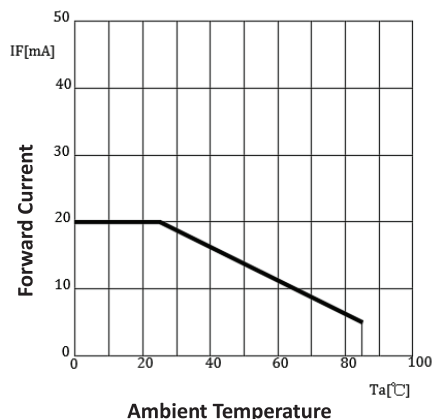


Forward Current vs Forward Voltage

Ta=25°C

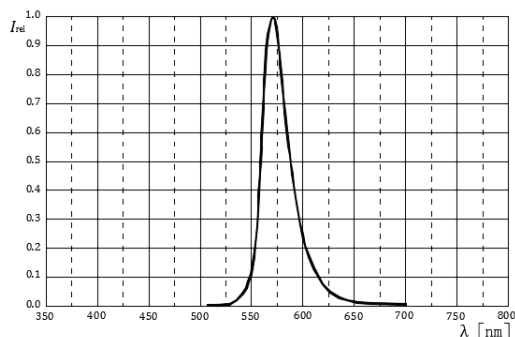


Forward Current Derating Curve



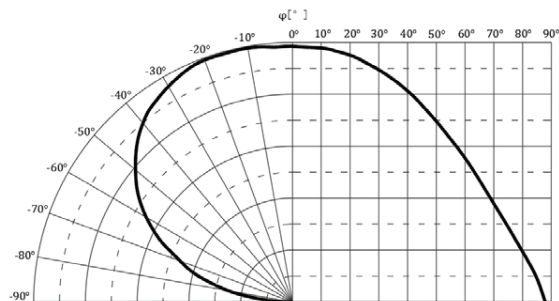
Relative Spectral Emission (Yellow Green)

IF=20mA, Ta=25°C



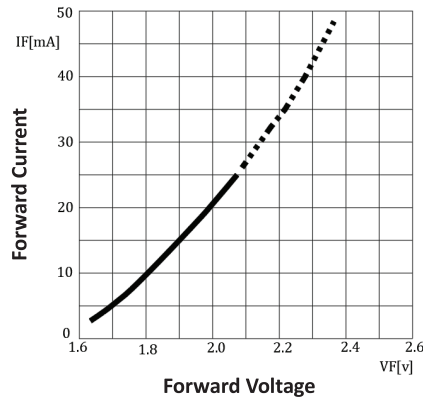
Radiation Characteristics

IF=10mA, Ta=25°C

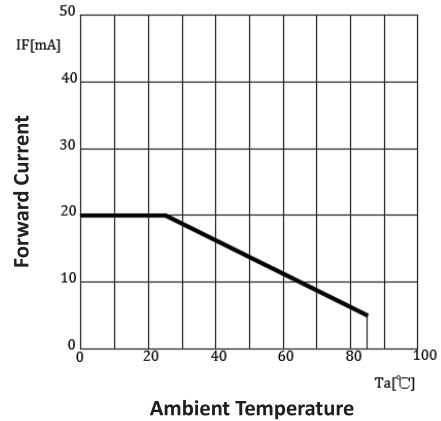


Forward Current vs Forward Voltage

Ta=25°C

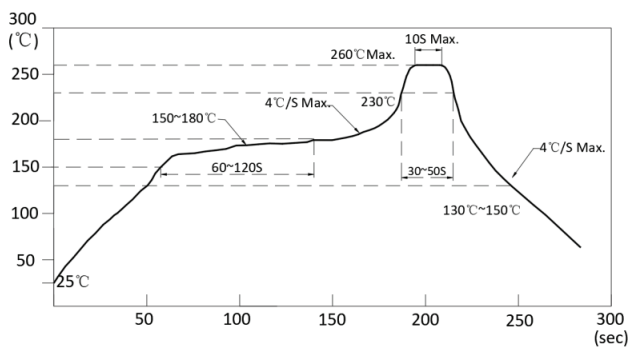


Forward Current Derating Curve



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, Red and Yellow Green, SMD 1204, 1.9mm, 20mA	MP017055

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