

RoHS
Compliant



Features

- 3mm × 1mm SMD LED, 1.4mm thickness
- Low power consumption
- Wide view angle

Applications

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

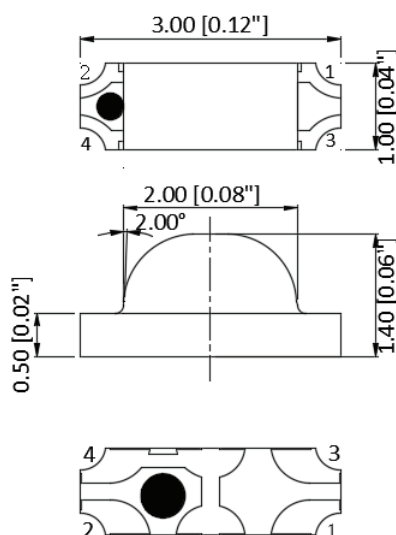
Specifications

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

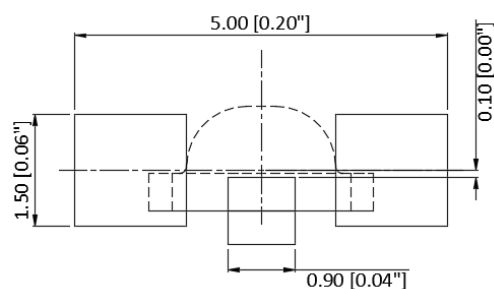
Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Yellow Green	Unit
Forward current	I _F	30		mA
Reverse voltage	V _R	5		V
Power Dissipation	P _D	72		mW
Operating Temperature	T _{op}	-40 to +85		°C
ESD(Human-body mode)	-	4		KV
Storage Temperature	T _{STG}	-40 to +85		°C
Peak pulsing current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

Electro-Optical Charactericss at T _A = 25°C								
Parameter	Test Condition	Symbol		Min.	Typ.	Max.	Unit	
Wavelength at peak emission	If=20mA	λp	Yellow	--	593	--	nm	
			Yellow Green	--	573	--		
Δλ		Yellow	--	20	--			
		Yellow Green	--	20	--			
λd		Yellow	585	--	595			
		Yellow Green	565	--	576			
Forward Voltage		VF	Yellow	1.8	--	2.4		V
			Yellow Green	1.8	--	2.4		
Luminous Intensity		IV	Yellow	80	120	200	mcd	
			Yellow Green	32	45	63		
Viewing angle at 50% Iv	If=10mA	2θ1/2		--	120	--	Deg.	
Reverse current	Vr=5V	Ir		--	--	10	μA	

Package outlines



Recommend Pad Layout



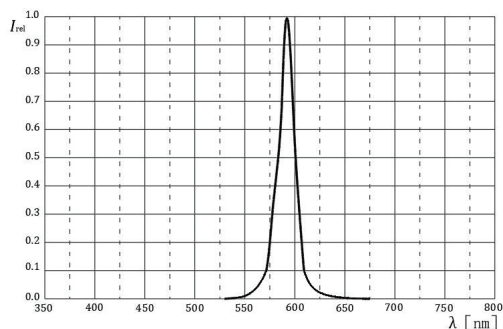
Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.

Dimensions : Millimetres (Inches)

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

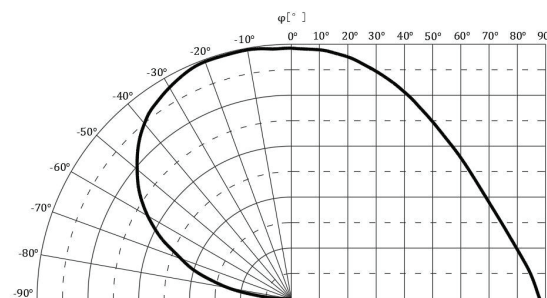
Relative Spectral Emission (Yellow)

IF=20mA, Ta=25°C



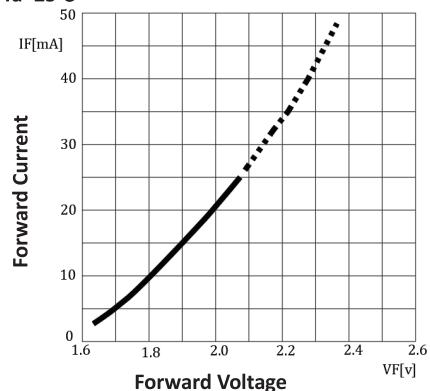
Radiation Characteristics

IF=10mA, Ta=25°C

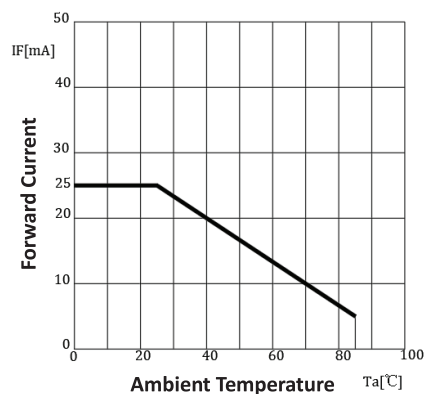


Forward Current vs Forward Voltage

Ta=25°C

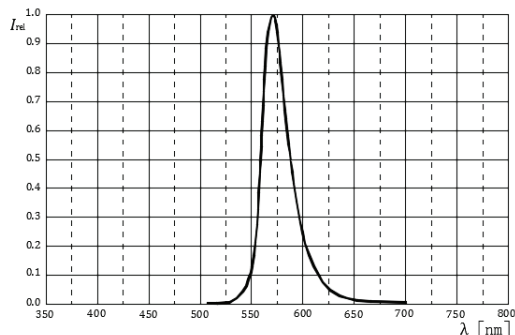


Forward Current Derating Curve



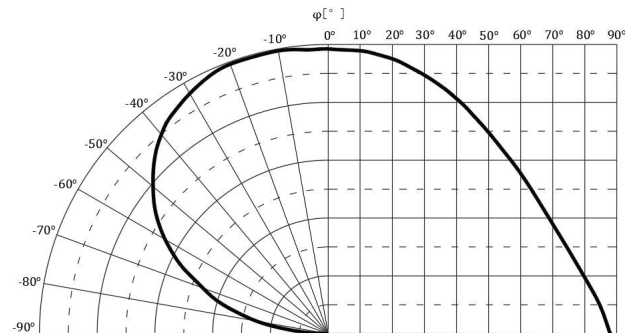
Relative Spectral Emission (Yellow Green)

IF=20mA, Ta=25°C



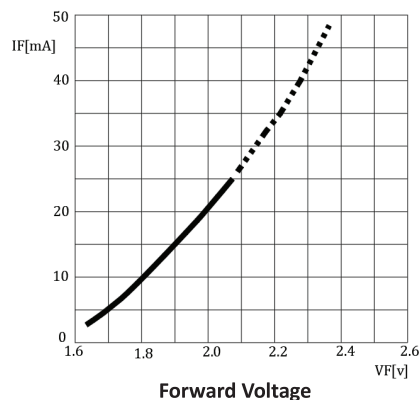
Radiation Characteristics

IF=10mA, Ta=25°C

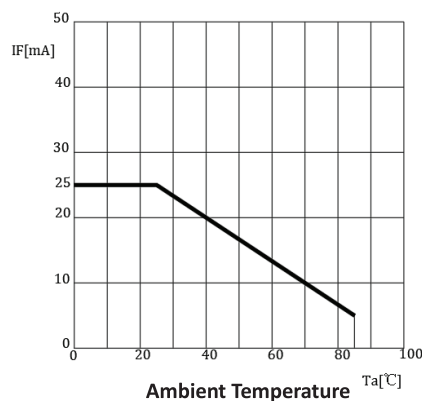


Forward Current vs Forward Voltage

Ta=25°C

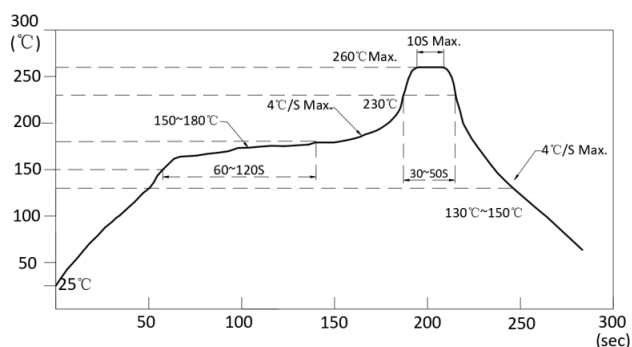


Forward Current Derating Curve



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, Common Anode, Yellow and Yellow Green, SMD 1204, 1.4mm	MP017056

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