SMC1200

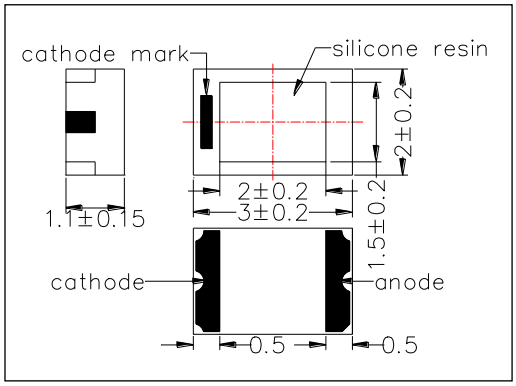
High Performance Infrared SMD LED on Ceramics

SMC1200 consists of an InGaAsP LED mounted on the ceramics package and is sealed with silicone or epoxy resin. It emits a spectral band of radiation at 1200nm.

<Specifications>

1. Product Name: SMD type Infrared LED
2. Type Number: SMC1200
3. Chip:
   - Chip Material: InGaAsP
   - Peak Wavelength: 1200nm type
4. Package
   - Package: Ceramics
   - Lens: Silicone or Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	150	mW	Ta=25℃
Forward Current	IF	100	mA	Ta=25℃
Pulse Forward Current*	IFP	500	mA	Ta=25℃
Reverse Voltage	VR	5	V	Ta=25℃
Junction Temperature	Tj	120	℃	
Thermal Resistance	Rthja	220	K/W	
Operating Temperature	TOPR	-40 ~ +100	℃	
Storage Temperature	TSTG	-40 ~ +100	℃	
Soldering Temperature**	TSOL	250	℃	

* Duty=1% and Pulse Width=10us

** Soldering condition must be completed within 3 seconds at 240 ℃

Electro-Optical Characteristics[Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.0	1.5	V
	VFP	IFP=500mA		1.6		
Radiated Power*	PO	IF=50mA		5		mW
		IFP=500mA		18		
Radiant Intensity**	IE	IF=50mA		2.9		mW/sr
		IFP=500mA		10.4		
Peak Wavelength	λP	IF=50mA	1150	1200	1250	nm
Half Width	Δλ	IF=50mA		65		nm
Viewing Half Angle	θ1/2	IF=50mA		±64		deg

* Measured by G8370-85

** Measured by Ando Optical Multi Meter AQ2140/2743

RoHS Compliant

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