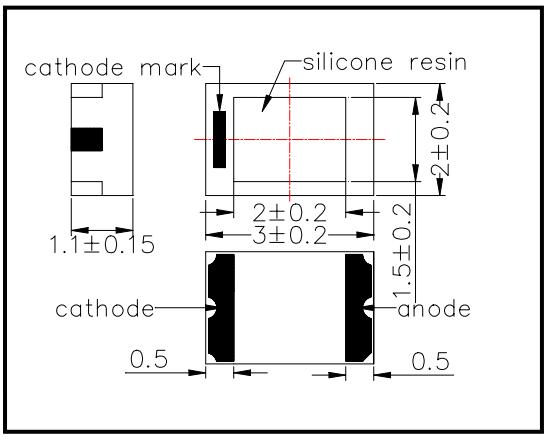
SMC395 UV color SMD LED on ceramics

SMC395 consists of an InGaN LED mounted on the ceramics package and is sealed with silicone resin.
It emits a spectral band of radiation at 395nm.

♦Outer dimension (Unit: mm)



♦Specifications

1) Product Name	SMD type UV color LED
2) Type No.	SMC395
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	395nm typ.
4) Package	
(1) Lead Frame Die	Ceramics
(2) Lens	Silicone resin

♦Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	110	mW	Ta=25°C
Forward Current	I_F	30	mA	Ta=25°C
Reverse Voltage	V_R	5	V	Ta=25°C
Junction Temperature	T_j	100	°C	
Thermal Resistance	R_{thja}	210	K/W	
Operating Temperature	T_{OPR}	-40 ~ +80	°C	
Storage Temperature	T_{STG}	-40 ~ +80	°C	
Soldering Temperature	T_{SOL}	255	°C	

‡Soldering condition: Soldering condition must be completed within 10 seconds at 255°C

♦Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=20mA		3.5	4.0	V
Reverse Current	I_R	V_R=5V			10	uA
Radiated Power	P_O	I_F=20mA	6	11		mW
Radiant Intensity	I_E	I_F=20mA		-		mW/sr
Peak Wavelength	λ_P	I_F=20mA	385	395	405	Nm
Half Width	$\Delta\lambda$	I_F=20mA		15		Nm
Viewing Half Angle	$\theta_{1/2}$	I_F=20mA		±55		deg.

‡Radiated Power is measured by S3584-08.

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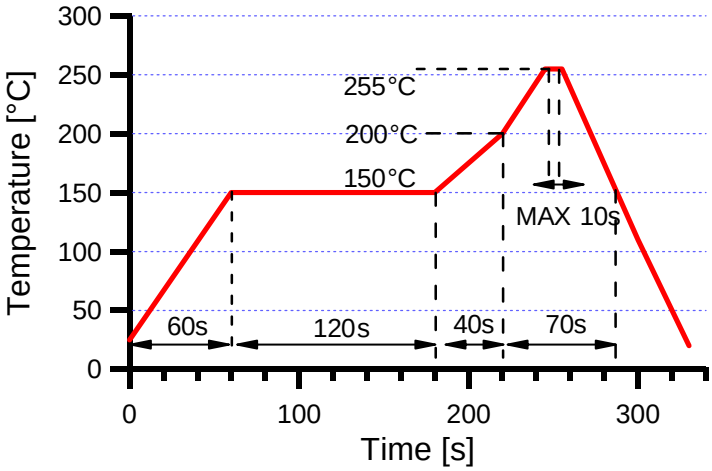
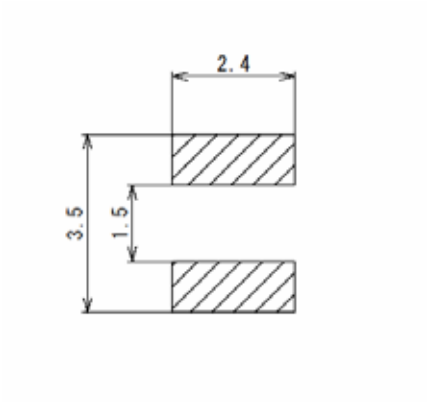
♦SMD Application

Recommended reflow soldering profile



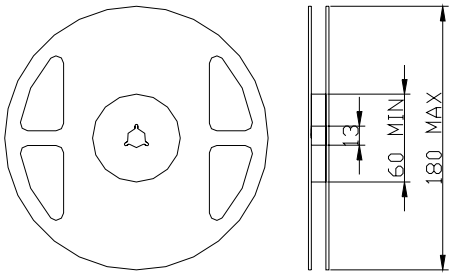
Recommended Land Layout (Unit: mm)

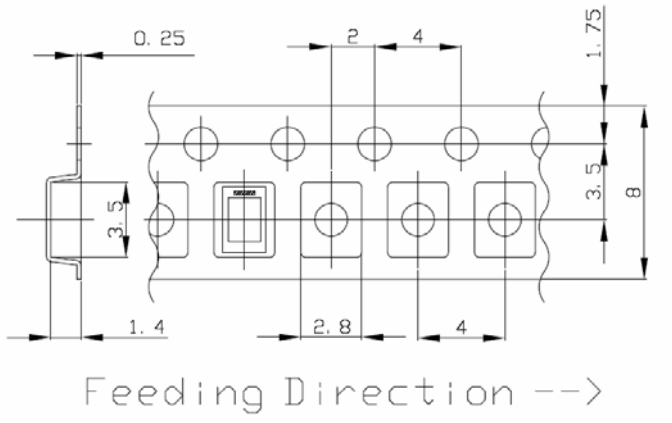


Don't put stress on SMD and a circuit board after soldering.

♦SMD Packing

Tape and Reel Dimensions (Unit: mm)





♦Wrapping

Moisture barrier bag aluminum laminated film with a desiccant to keep out the moisture absorption during the transportation and storage.

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