

PRELIMINARY

SMT405 Violet TOP LED

SMT405 consists of an InGaN LED mounted on the lead frame as TOP LED package and is sealed with epoxy resin
It emits a spectral band of radiation at 405nm.

Specifications

- 1) Product Name TOP LED
- 2) Type No. SMT405
- 3) Chip
 - (1) Chip Material InGaN
 - (2) Peak Wavelength 405nm typ.
- 4) Package
 - (1) Lead Frame Die Silver Plated
 - (2) Package Resin PPA Resin
 - (3) Lens Epoxy Resin

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a =25°C
Forward Current	I _F	30	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-20 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +80	°C	
Soldering Temperature	T _{SOL}	240	°C	

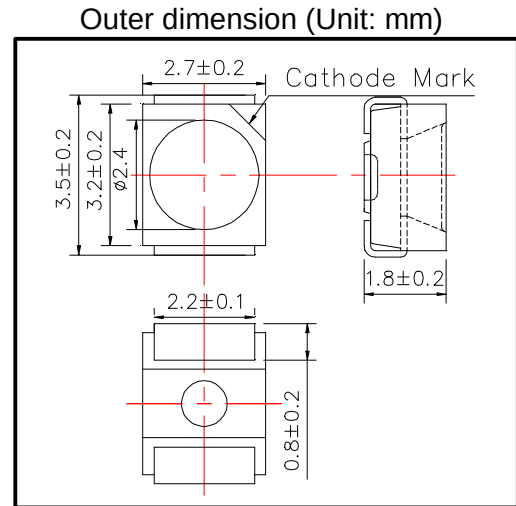
‡Soldering condition: Soldering condition must be completed within 3 seconds at 230°C

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.8	4.8	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		2		mW
Brightness	I _v	I _F =20mA		3		mcd
Peak Wavelength	λ _P	I _F =20mA	395	405	415	nm
Half Width	Δλ	I _F =20mA		15		nm
Viewing Half Angle	Q _{1/2}	I _F =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.



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