

## SMT640CE-200

## Point Source LED

SMT640CE-200 consists of red color point source LED mounted on the lead frame as TOP LED package and is 50mcd typical of brightness.

It emits a spectral band of radiation at 640nm.

## <Specifications>

Product Name: Point Source LED
Type Number: SMT640CE-200

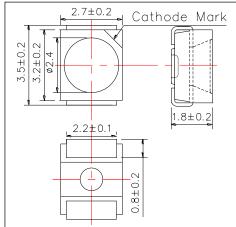
3. Chip:

Chip Material: AlGaInPPeak Wavelength: 640nmEmission Area: Φ200um

4.Package

Lead Frame Die: Silver PlatedPackage Resin: PPA ResinLens: Epoxy Resin

## Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]							
Item	Symbol	Maximum Rated Value	Unit				
Power Dissipation	PD	100	mW				
Pulse Forward Current*	IF	50	mA				
Reverse Voltage	VR	5	V				
Operating Temperature	TOPR	-20 ~ +80	°C				
Storage Temperature	TSTG	-30 ~ +80	°C				
Soldering Temperature**	TSOL	255	°C				

<sup>\*</sup> Duty=1% and Pulse Width=10us.

<sup>\*\*</sup> Soldering condition must be completed within 10 second at 255°C.

Electro-Optical Characteristics[Ta=25℃]									
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit			
Forward Voltage	VF	IF=20mA		1.9	2.2	V			
Reverse Current	IR	VR=5V			10	uA			
Total Radiated Power*	PO	IF=20mA		0.5		mW			
Brightness**	IV	IF=20mA		50		mcd			
Radiant Intensity	IE	IF=50mA		0.2		mW/sr			
Peak Wavelength	λP	IF=20mA	630	640	650	nm			
Half Width	Δλ	IF=20mA		13		nm			
Viewing Half Angle	θ1/2	IF=20mA		±30		deg			

<sup>\*</sup> Measured by Photodyne #500



<sup>\*\*</sup> Measured by Tektronix J-16