


0402<1.0×0.6 t=0.2mm> Low Current Type (I_F ≤ 10mA)

SMLP12 Series

PICOLED™

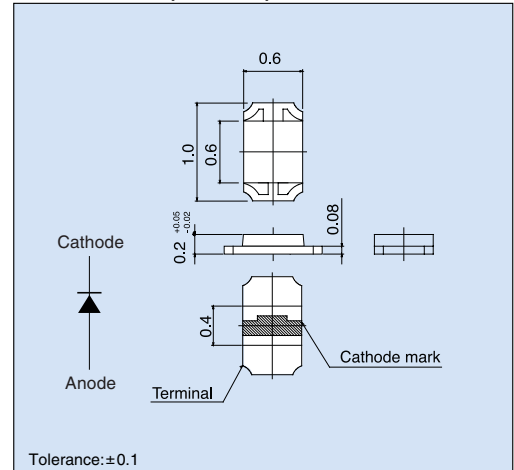
Emitting Color	Blue
Material	InGaN on SiC
Package Size(mm)	
Part No.	SMLP12B7T

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current I _{FP} * (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SMLP12B7T	Blue	66	20	100	5	-40 to +85	-40 to +100

*:Duty ≤ 1/10, 1kHz.

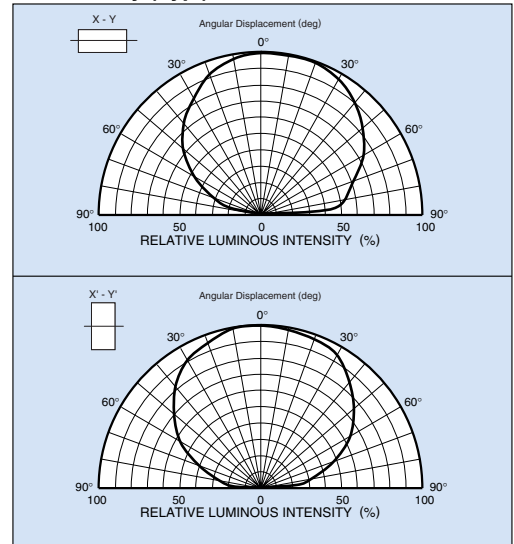
Dimensions (Unit:mm)



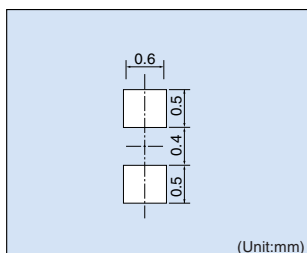
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Dominant λ _D		Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SMLP12B7T	Transparent Colorless	2.9	5	100	5	465	5	5.6	17	5

Directivity (Typ.)

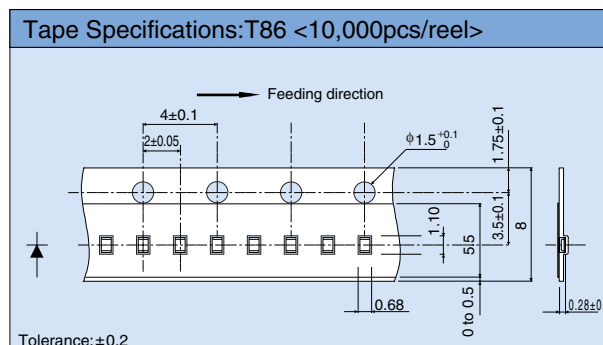


Recommended Pad Layout

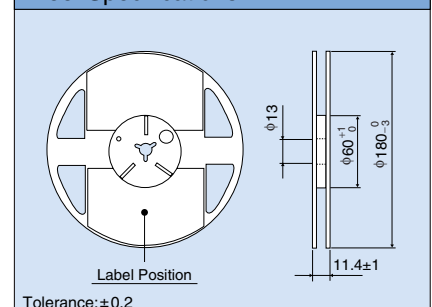


The recommended thickness of the screen mask for soldering is between 80 and 130μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)

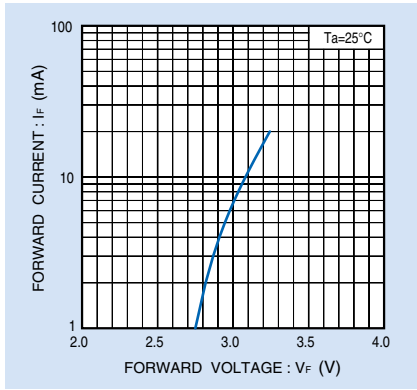


Reel Specifications



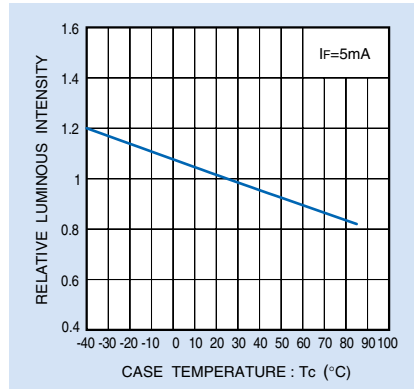
■ Electrical Characteristic Curves

Forward Current - Forward Voltage



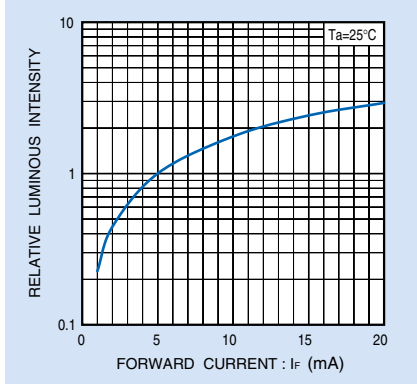
— SMLP12BC7T

Relative Luminous Intensity - Case Temperature



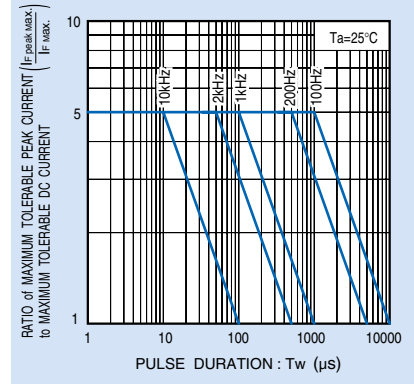
— SMLP12BC7T

Relative Luminous Intensity - Forward Current



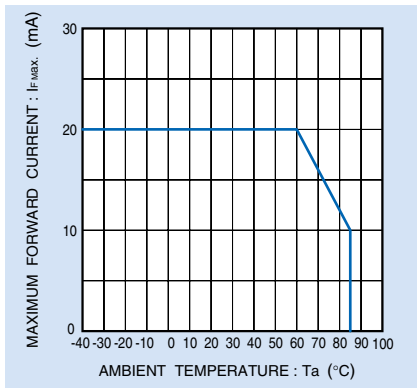
— SMLP12BC7T

Ratio of Maximum Tolerable Peak Current - Pulse Duration



— SMLP12BC7T

Derating



— SMLP12BC7T

Notes

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