

0402<1.0×0.6 t=0.2mm> Low Current Type ($I_F \leq 10\text{mA}$)

SMLP12 Series

PICOLED™

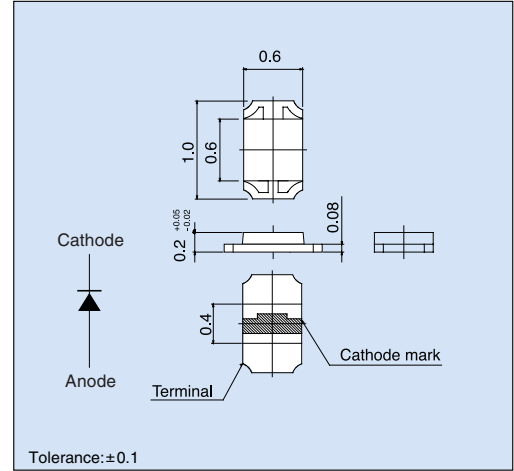
Emitting Color	Blue
Material	InGaN on SiC
Package Size(mm)	
Part No.	SMLP12BC7T

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)
SMLP12BC7T	Blue	66	20	100	5	-40 to +85	-40 to +100

*:Duty $\leq 1/10$, 1kHz.

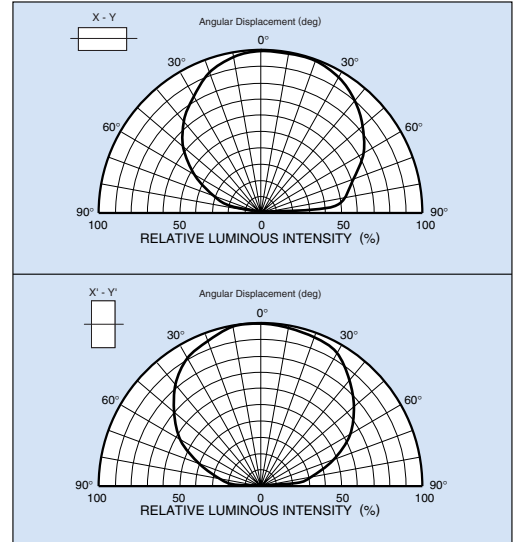
Dimensions (Unit:mm)



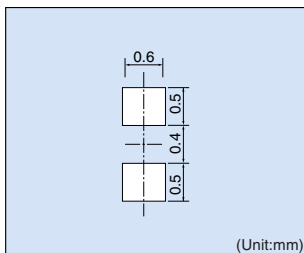
Electrical Optical Characteristics (Ta=25°C)

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)
SMLP12BC7T	Transparent Colorless	2.9	5	100	5	465	5	5.6	17	5

Directivity (Typ.)

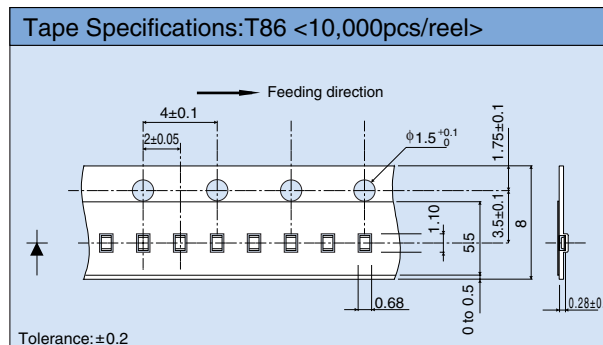


Recommended Pad Layout

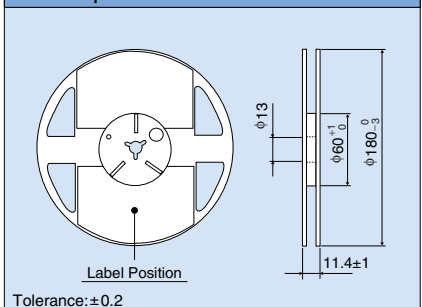


The recommended thickness of the screen mask for soldering is between 80 and 130 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)

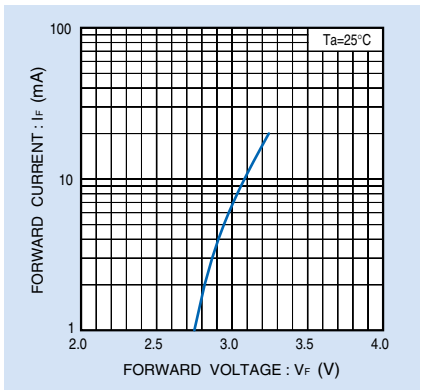


Reel Specifications



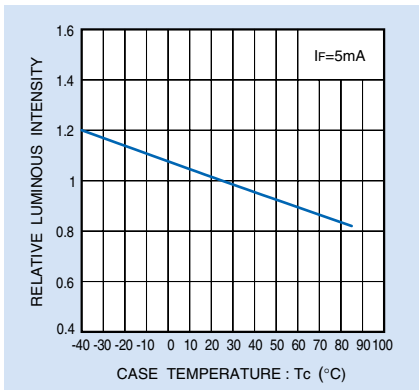
■Electrical Characteristic Curves

Forward Current - Forward Voltage



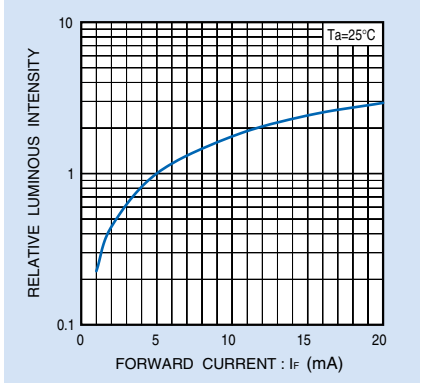
— SMLP12BC7T

Relative Luminous Intensity - Case Temperature



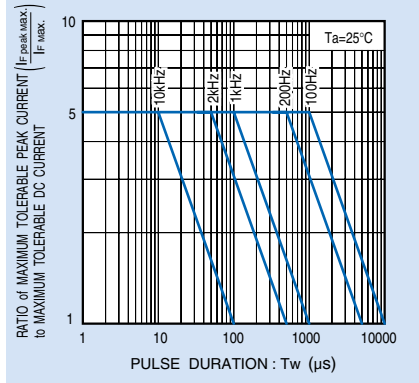
— SMLP12BC7T

Relative Luminous Intensity - Forward Current



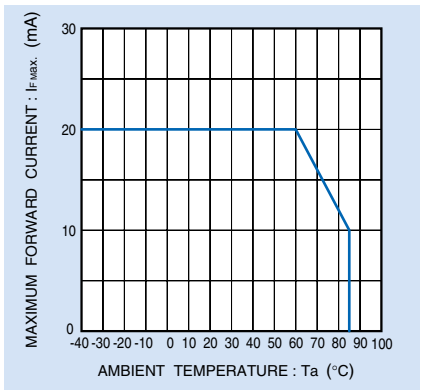
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Ratio of Maximum Tolerable Peak Current - Pulse Duration



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Derating



— SMLP12BC7T

Notes

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