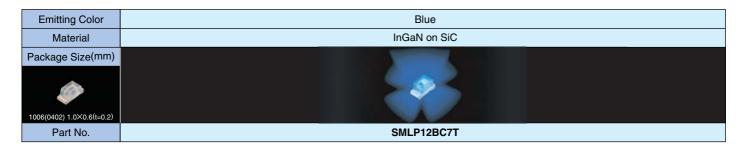
## 0402<1.0×0.6 t=0.2mm> Low Current Type (IF≦10mA)



## SMLP12 Series

PICOLED™



#### ■ Absolute Maximum Ratings (Ta=25°C)

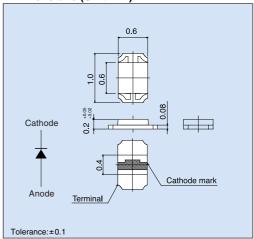
Part No.	Emitting color	Power dissipation Pb (mW)	Forward current IF (mA)	Peak forward current IFP* (mA)	Reverse voltage V <sub>R</sub> (V)		Storage temperature Tstg ( C)
SMLP12BC7T	Blue	66	20	100	5	-40 to +85	-40 to +100

<sup>\*:</sup>Duty ≦1/10, 1kHz.

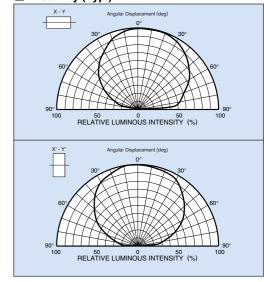
#### **■**Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current In		Light wavelength Dominant λD		Brightness Iv		
		Typ. (V)	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SMLP12BC7T	Transparent Colorless	2.9	5	100	5	465	5	5.6	17	5

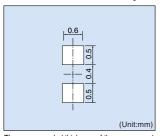
#### **■**Dimensions (Unit:mm)



#### ■Directivity (Typ.)

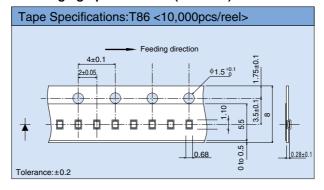


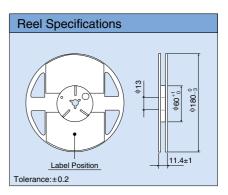
#### ■ Recommended Pad Layout



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.

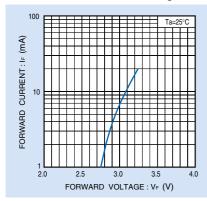
#### ■ Packaging Specifications (Unit:mm)





#### **■**Electrical Characteristic Curves

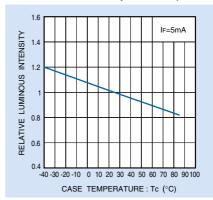
#### **Forward Current - Forward Voltage**



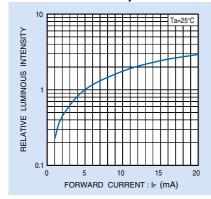
#### **Relative Luminous Intensity - Case Temperature**

SMLP12BC7T

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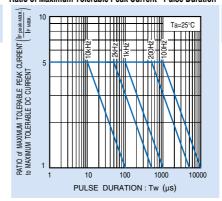
#### **Relative Luminous Intensity - Forward Current**



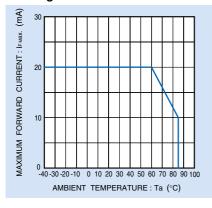
SMLP12BC7T

SMLP12BC7T

#### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Derating



- SMLP12BC7T

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