

SMLP12 Series

PICOLEDTM



■ Absolute Maximum Ratings (Ta=25°C)

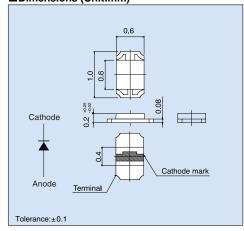
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current IF (mA)	Peak forward current IFP* (mA)	Reverse voltage V _R (V)	Operating temperature Topr (C)	Storage temperature T _{stg} (C)
SMLP12BC7T	Blue	66	20	100	5	-40 to +85	-40 to +100

^{*:}Duty ≦1/10, 1kHz.

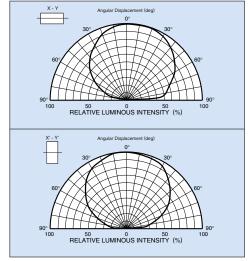
■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Dominant λD		Brightness Iv		
		Typ.	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

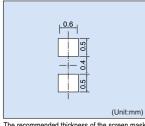
■Dimensions (Unit:mm)



■ Directivity (Typ.)

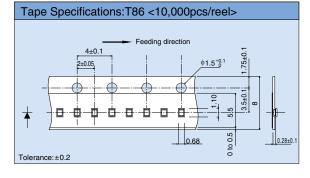


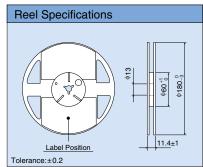
■ Recommended Pad Layout



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.

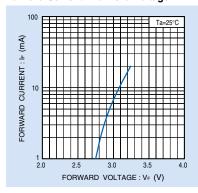
■ Packaging Specifications (Unit:mm)





■Electrical Characteristic Curves

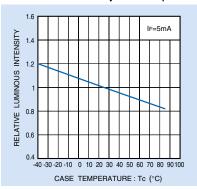
Forward Current - Forward Voltage



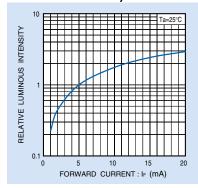
Relative Luminous Intensity - Case Temperature

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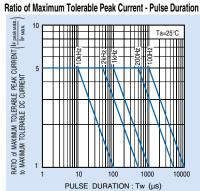


Relative Luminous Intensity - Forward Current

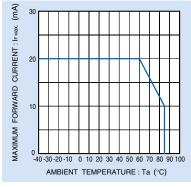


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Derating



- SMLP12BC7T

Notes

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Appendix1-Rev2.0