Low Current Type (IF≦10mA) Mini-molded chip LEDs

SML512 Series



Note) "-" will be taken out for emitting color B series.

■ Absolute Maximum Ratings (Ta=25°C)

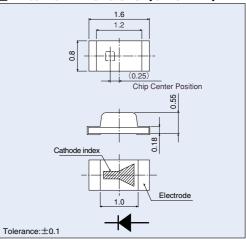
Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage VR (V)		Stotage temperature Tstg (°C)
SML512BC4T	Blue	74	20	100*	5	-30 to +85	-40 to +100

* IFP measured under duty $\leq 1/10,1$ kHz.

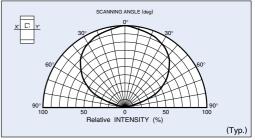
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage VF		Reverse current In		Light wavelength Peak Half-wave $\lambda p \qquad \Delta \lambda$			Brightness Iv		
		Тур. (V)	lF (mA)	Max. (μA)	Vr (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SML512BC4T	Transparent Clear	2.9	5	100	5	468	26	5	5.6	14	5

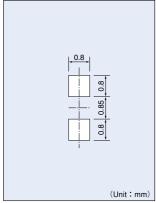
External Dimensions (Unit : mm)



Directivity

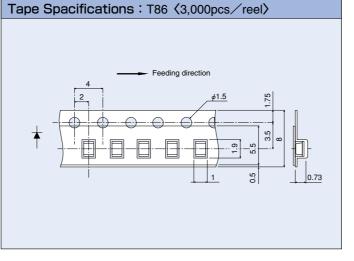


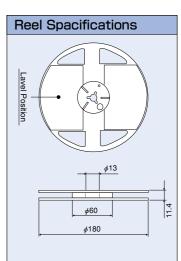
Recommended Pad Layout



The recommended thickness of the screen mask for soldering is between 100 and $200\,\mu$ m. The hole size of the screen mask should be same as the recommended land pattern or smaller.

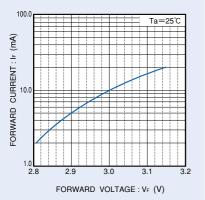
Packaging Spacifications (Unit:mm)





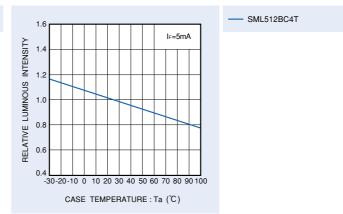
Electrical Characteristic Curves

Forward Current - Forward Voltage

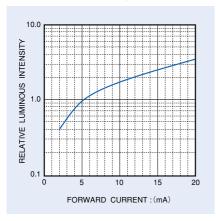


— SML512BC4T

Relative Luminous Intensity - Case Temperature

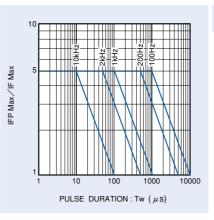


Relative Luminous Intensity - Forward Current



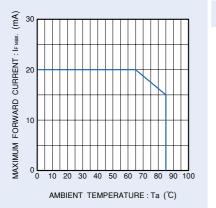


Ratio of Maximum Tolerable Peak Current - Pulse Duration



- SML512BC4T

Derating





Notes

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