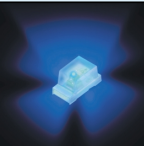


Low Current Type ($I_F \leq 10\text{mA}$) Mini-molded chip LEDs

SML512 Series

Package Size (mm)	Blue
	InGaN on SiC
	468nm
1608 (0603) 1.6×0.8 t=0.55	
SML512BC4T	

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

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

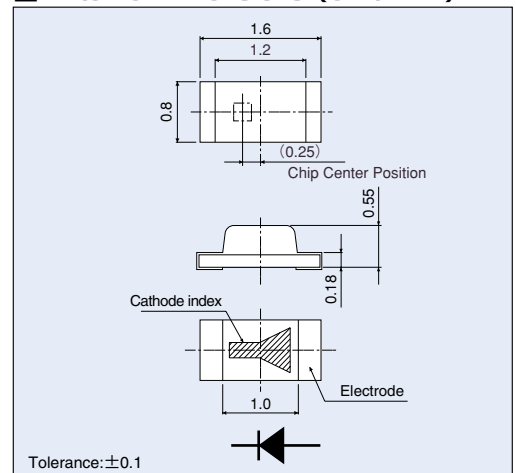
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current * I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} ($^\circ\text{C}$)	Storage temperature T_{stg} ($^\circ\text{C}$)
SML512BC4T	Blue	74	20	100*	5	-30 to +85	-40 to +100

* I_{FP} measured under duty $\leq 1/10, 1\text{kHz}$.

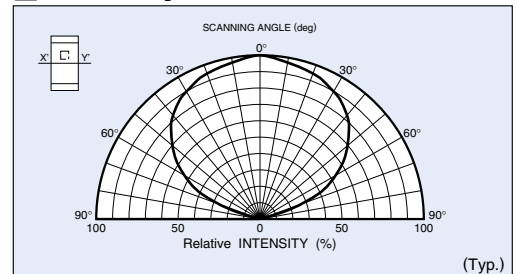
Electrical Optical Characteristics ($T_a=25^\circ\text{C}$)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength			Brightness I_v		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Peak λ_p (nm)	Half-wave $\Delta\lambda$ (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML512BC4T	Transparent Clear	2.9	5	100	5	468	26	5	5.6	14	5

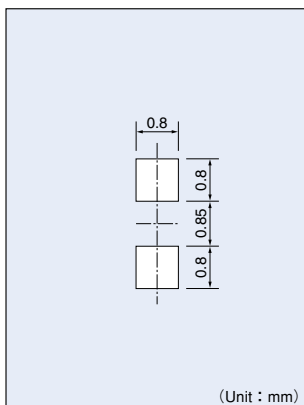
External Dimensions (Unit : mm)



Directivity

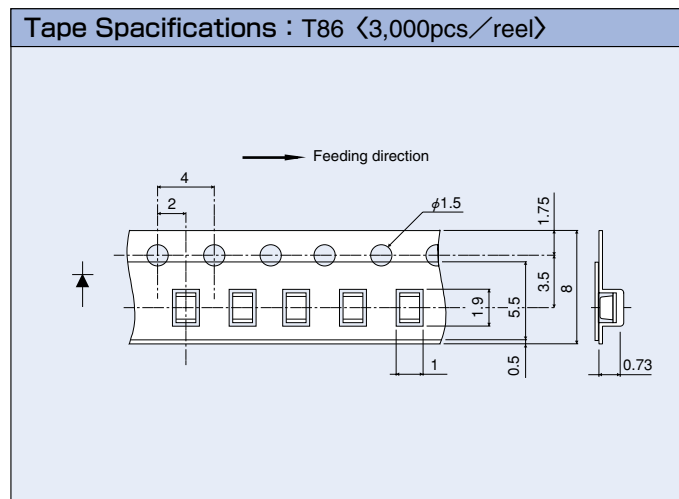


Recommended Pad Layout

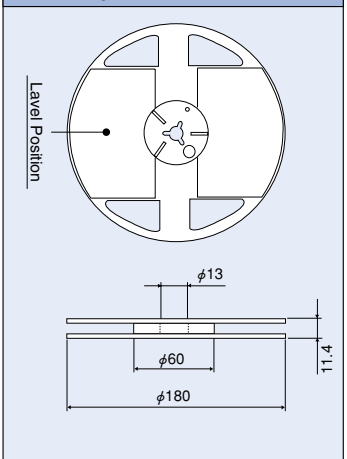


The recommended thickness of the screen mask for soldering is between 100 and 200 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

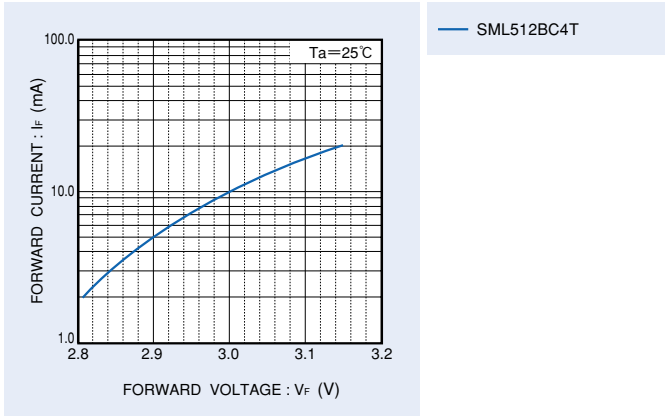


Reel Specifications

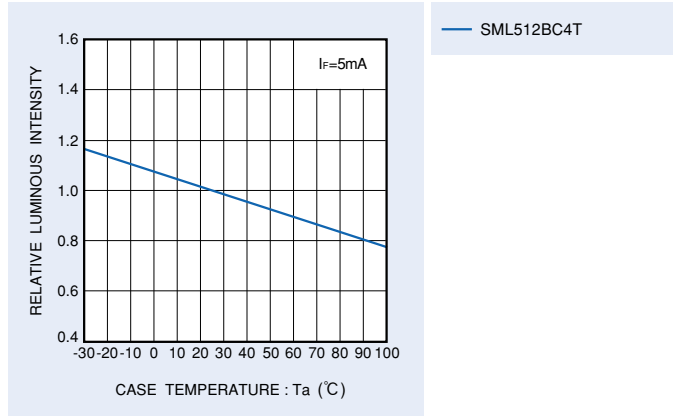


Electrical Characteristic Curves

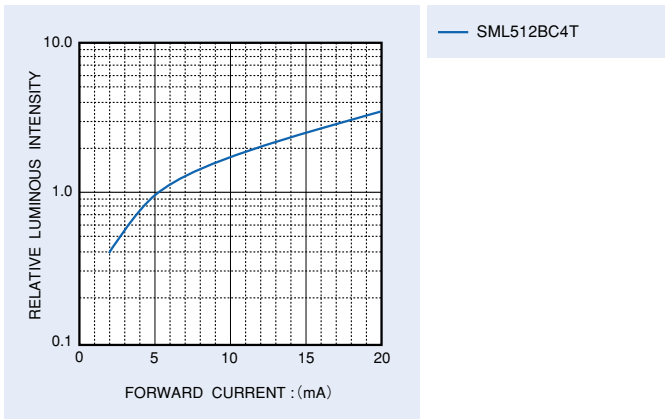
Forward Current - Forward Voltage



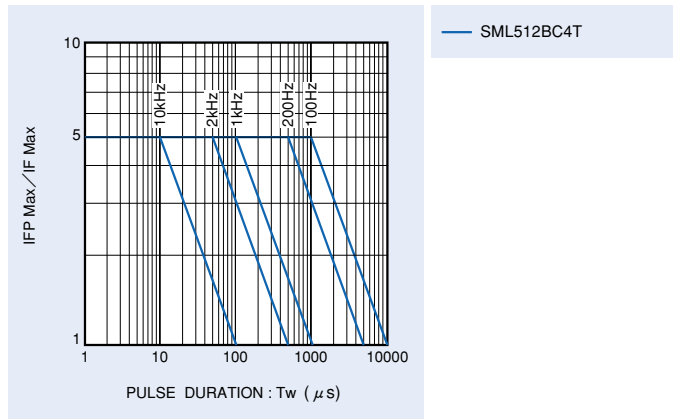
Relative Luminous Intensity - Case Temperature



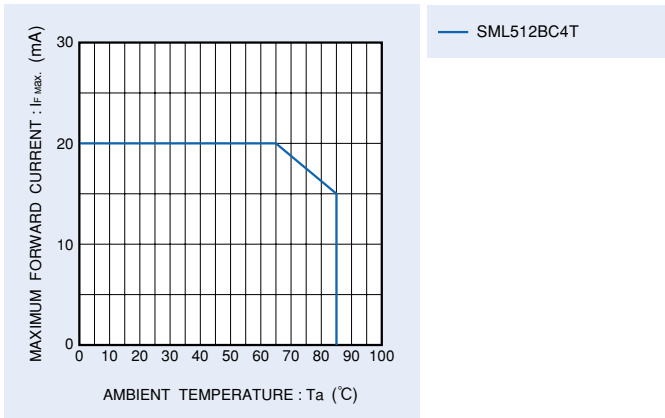
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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