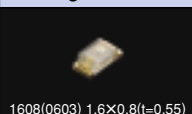


0603<1.6×0.8 t=0.55mm> Low Current Type($I_F \leq 10\text{mA}$)

SML512 Series

Emitting Color	Blue
Material	InGaN on SiC
Package Size(mm)	 1608(0603) 1.6×0.8(t=0.55)
Part No.	SML512BC5T

note) "-" will be taken out for emitting color B/E series.

Absolute Maximum Ratings (Ta=25°C)

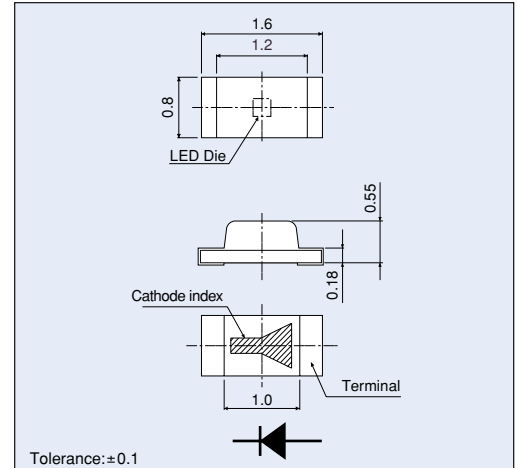
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current $*I_{FP}$ (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
SML512BC5T	Blue	66	20	100	5	-40 to +100	-40 to +100

※:Duty $\leq 1/10, 1\text{kHz}$.

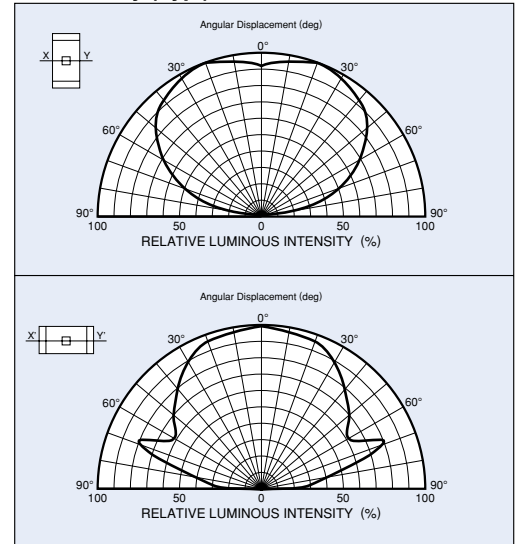
Electrical Optical Characteristics (Ta=25°C)

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 Typ. (nm)	Half-wave $\Delta\lambda$ Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML512BC5T	Transparent Colorless	2.9	5	100	5	468	26	5	5.6	16	5

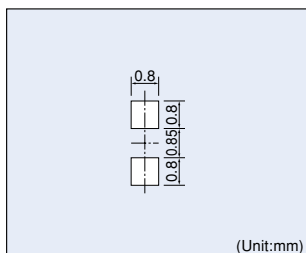
Dimensions (Unit:mm)



Directivity (Typ.)

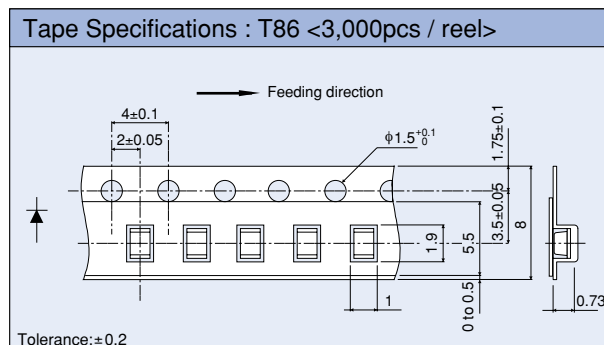


Recommended Pad Layout

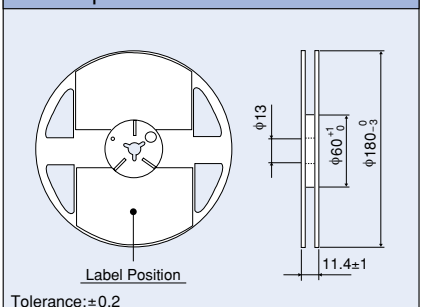


The recommended thickness of the screen mask for soldering is between 100 and 150 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

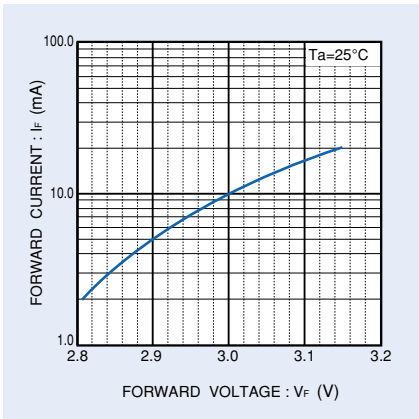


Reel Specifications



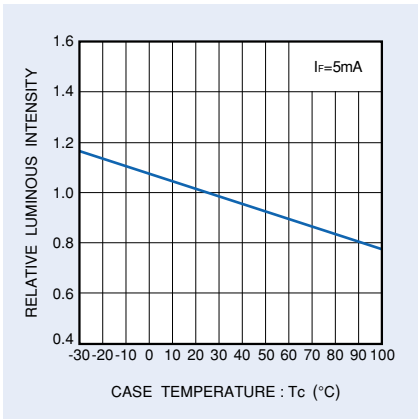
■ Electrical Characteristic Curves

Forward Current - Forward Voltage



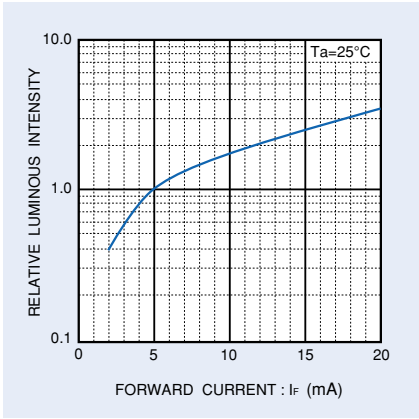
SML512BC5T

Relative Luminous Intensity - Case Temperature



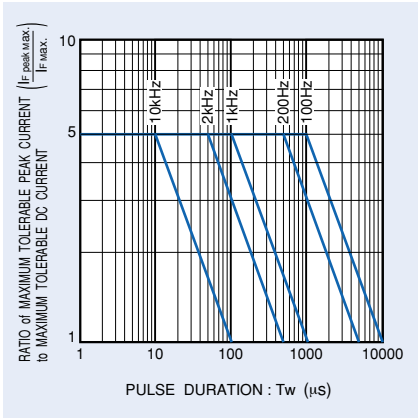
SML512BC5T

Relative Luminous Intensity - Forward Current



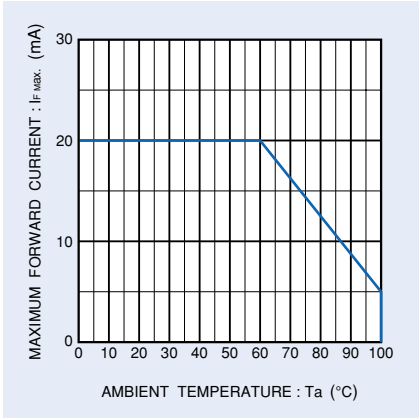
SML512BC5T

Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML512BC5T

Derating



SML512BC5T

Notes

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