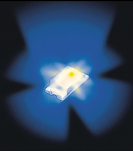


Low Current Type (IF≤10mA) Mini-molded chip LEDs

SML412 Series

Package Size (mm)	Blue
	InGaN on SiC
	468nm
1608 (0603) 1.6×0.8 t=0.4	
	SML412BC4T

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

Absolute Maximum Ratings (Ta=25℃)

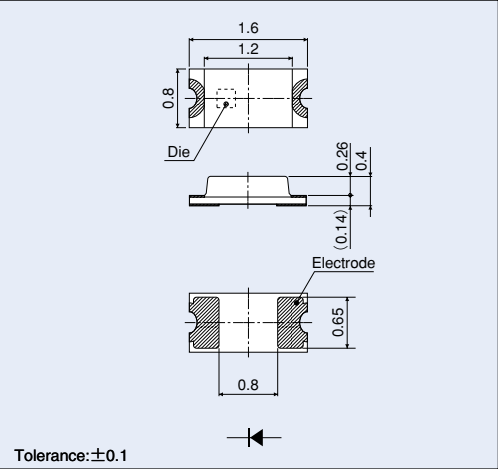
Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (℃)	Stotage temperature Tstg (℃)
SML412BC4T	Blue	74	20	100	5	-30 to +85	-40 to +100

* IFP measured under duty ≤1/10,1kHz.

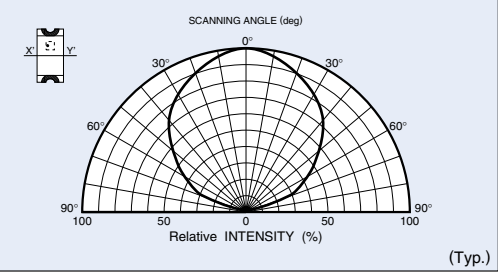
Electrical Optical Characteristics (Ta=25℃)

Part No.	Resin Color	Forward voltage VF		Reverse current IR		Light wavelength			Brightness Iv		
		Typ. (V)	IF (mA)	Max. (μA)	VR (V)	Peak λp (nm)	Half-wave Δλ (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
SML412BC4T	Transparent Clear	2.9	5	100	5	468	26	5	5.6	14	5

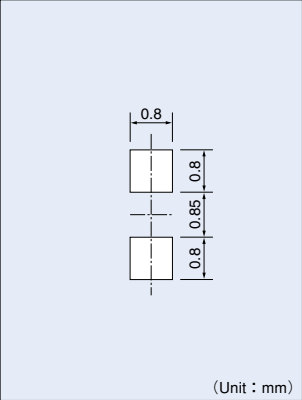
External Dimensions (Unit : mm)



Directivity

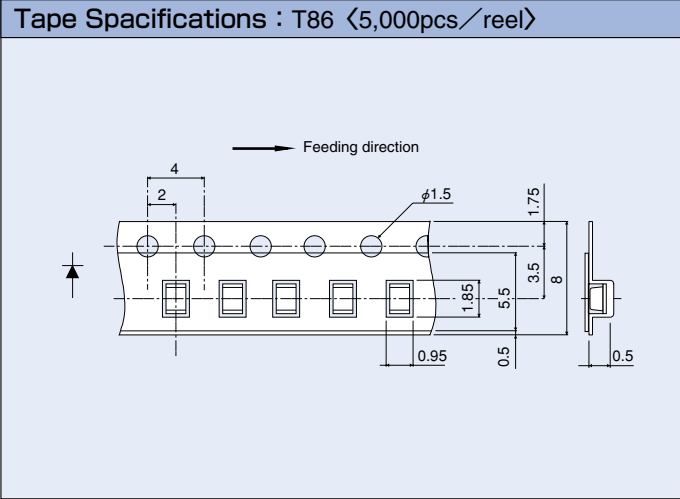


Recommended Pad Layout

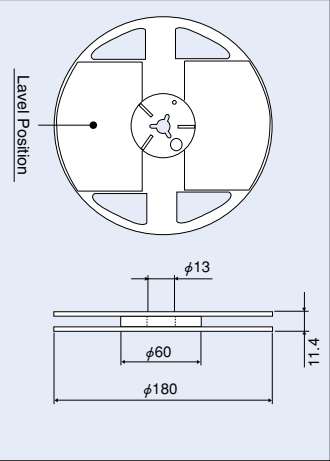


The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

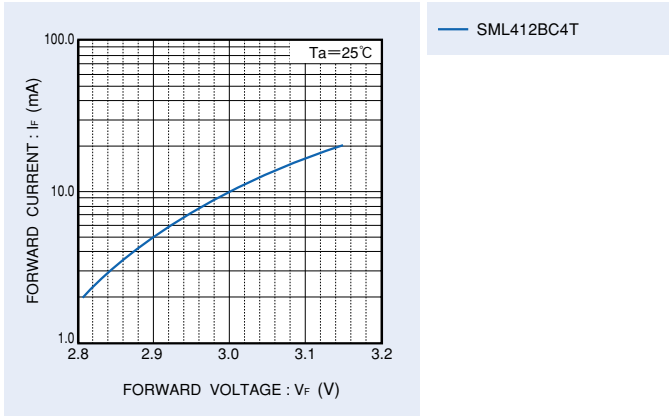


Reel Spacifications

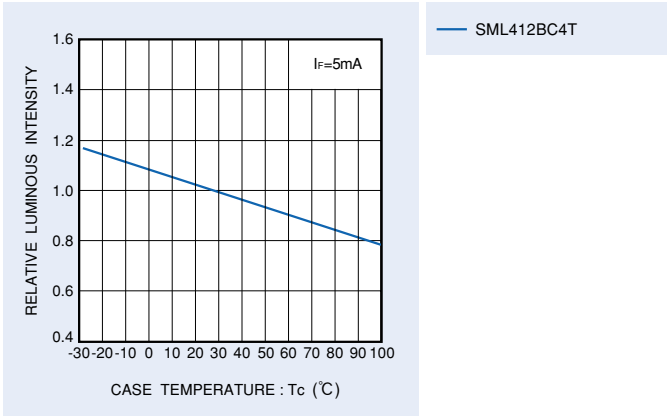


Electrical Characteristic Curves

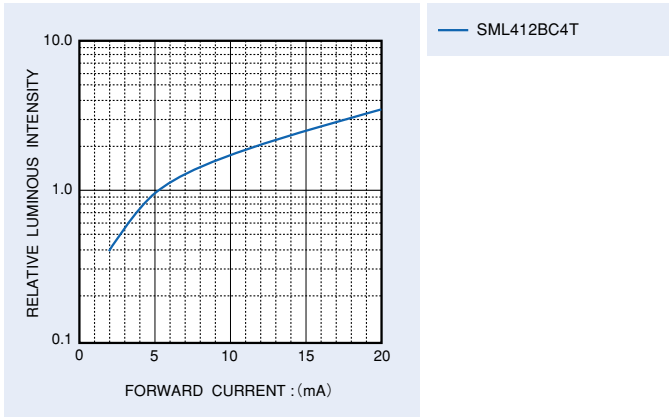
Forward Current - Forward Voltage



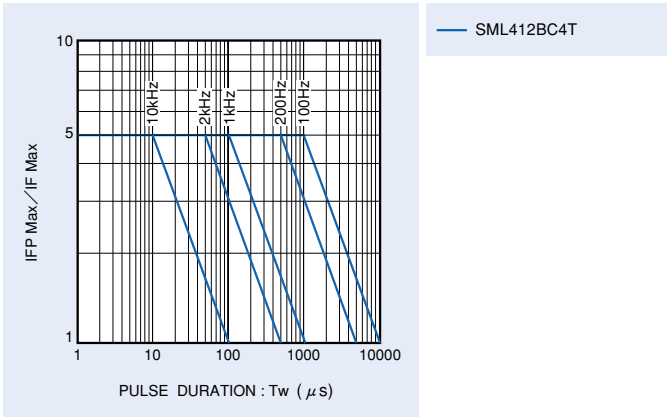
Relative Luminous Intensity - Case Temperature



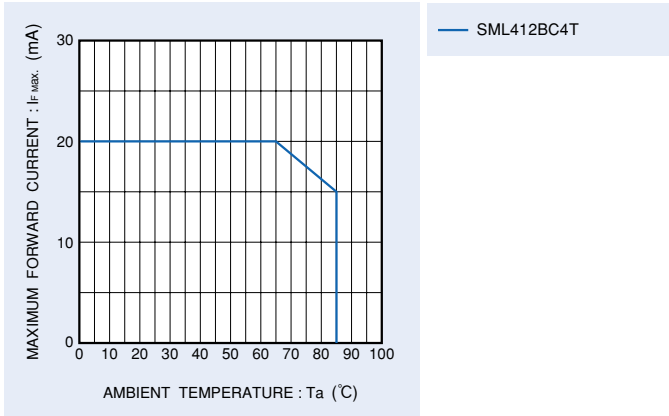
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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