Low Current Type (IF≦10mA)　Side view chip LEDs

SMLA12 Series

Package Size (mm)	Blue
	InGaN on SiC
	468nm
1611 (0605) 1.6×1.15 t=0.55	
	SMLA12BC4T

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

■ Absolute Maximum Ratings (Ta=25℃)

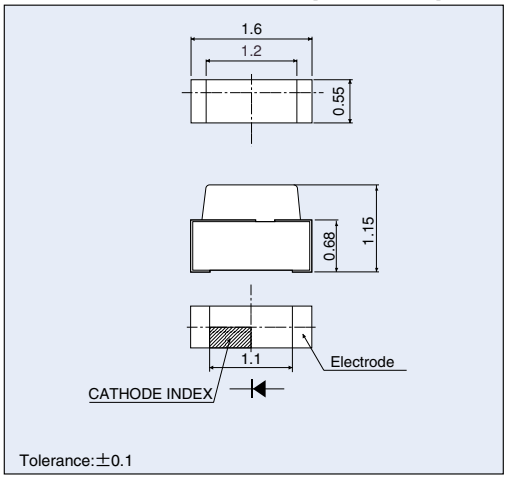
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current ＊I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Stotage temperature T_{stg} (°C)
SMLA12BC4T	Blue	74	20	100	5	-30 to +85	-40 to +100

＊I_{FP} measured under duty ≦1/ 10 1KHZ

■ Electrical Optical Characteristics (Ta=25℃)

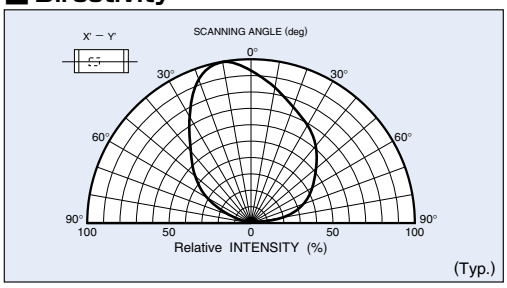
Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Peak λp	Light wavelength Half-wave Δλ		Brightness Iv		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Typ. (nm)	Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SMLA12BC4T	Transparent Clear	2.9	5	100	5	468	26	5	5.6	14	5

■ External Dimensions (Unit : mm)



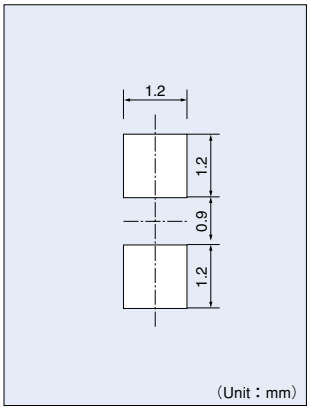
Tolerance:±0.1

■ Directivity



(Typ.)

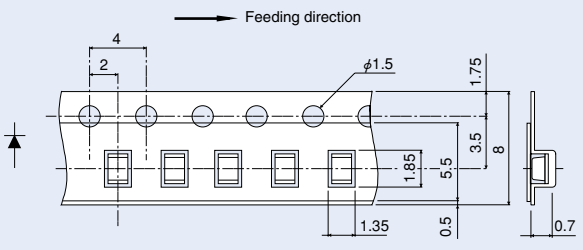
■ Recommemded Pad Layout



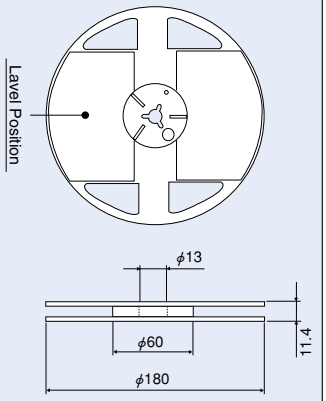
The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Spacifications (Unit : mm)

Tape Spacifications : T86 〈3,000pcs／reel〉

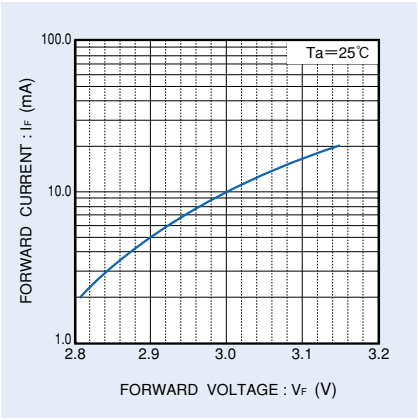


Reel Spacifications



Electrical Characteristic Curves

Forward Current - Forward Voltage



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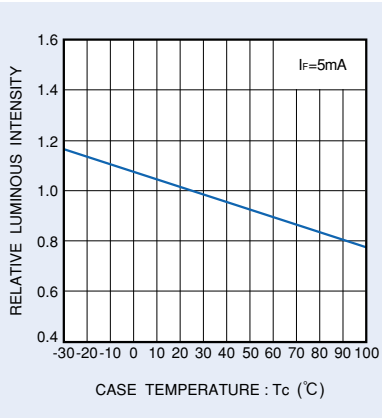
Relative Luminous Intensity - Case Temperature



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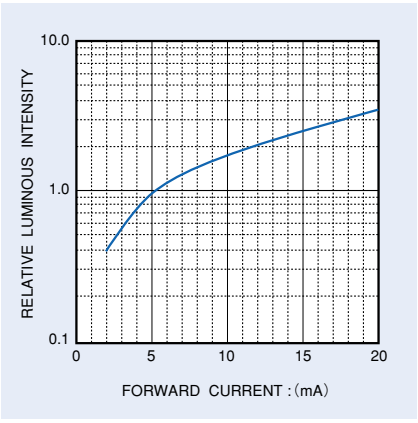
Relative Luminous Intensity - Forward Current



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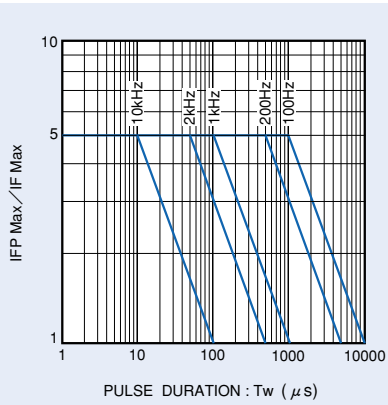
Ratio of Maximum Tolerable Peak Current - Pulse Duration



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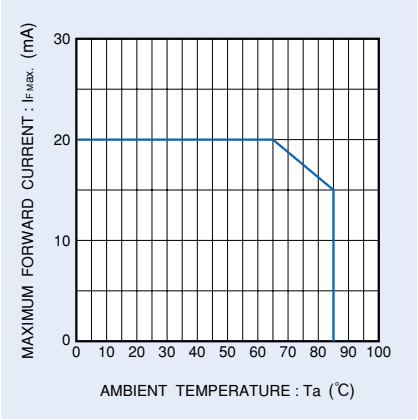
Derating



SMLA12BC4T

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