

Pb Free
ROHM Electronic Components

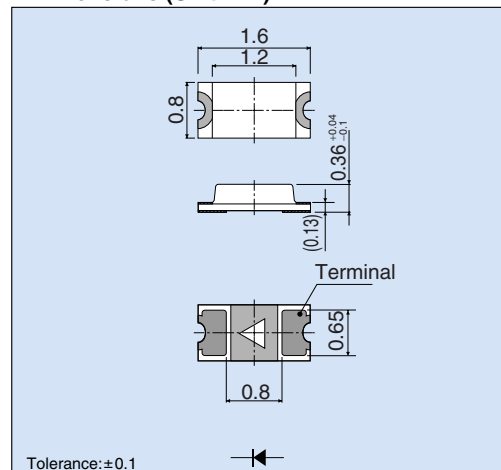
RoHS
Directive Compliance

Emitting Color	Blue	Green
Material	InGaN on SiC	
Package Size(mm)		
 1608(0603) 1.6×0.8(t=0.36)		
Part No.	SMLE12BC7T	SMLE12EC6T

■ 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)
SMLE12BC7T	Blue	66	20	100	5	-30 to +85	-40 to +100
SMLE12EC6T	Green	68					

■ Dimensions (Unit:mm)

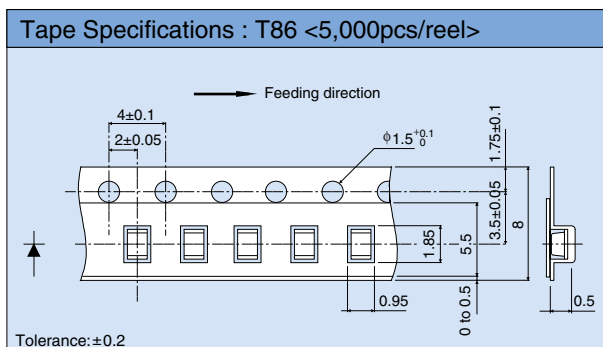


Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Peak λ _p Half-wave Δλ			Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Typ. (nm)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SMLE12BC7T	Transparent	2.9				468	26		9.0	22	
SMLE12EC6T	Colorless	3.0	5	100	5	521	35	5	36	85	5

Figure 10 consists of two hemispherical luminous intensity distribution diagrams. The top diagram shows a luminaire with a single light source (X) and a beam angle of 60 degrees. The bottom diagram shows a luminaire with two light sources (X and Y) and a beam angle of 60 degrees. Both diagrams include a grid for angular displacement (0 to 90 degrees) and relative luminous intensity (0 to 100%).

Technical drawing of a stepped shaft. The shaft has a total length of 100 mm. It consists of two main sections: a larger diameter section on the left and a smaller diameter section on the right. The larger diameter section has a diameter of 0.8 mm and a length of 0.85 mm. The smaller diameter section has a diameter of 0.8 mm and a length of 0.8 mm. The total length is 100 mm. The unit is mm.

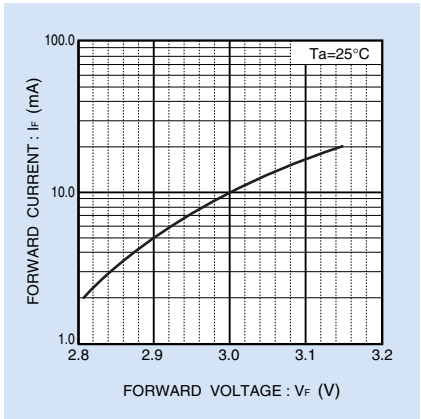
■Packaging Specifications (Unit:mm)



Technical drawing of a circular part with a cross-section. The top view shows a circular part with a central hole and four radial slots. The side view shows a cylindrical part with a diameter of 180 mm and a height of 11.4 ± 1 mm. The central hole has a diameter of 60 mm. The radial slots have a width of 13 mm. The part is labeled 'Label Position'.

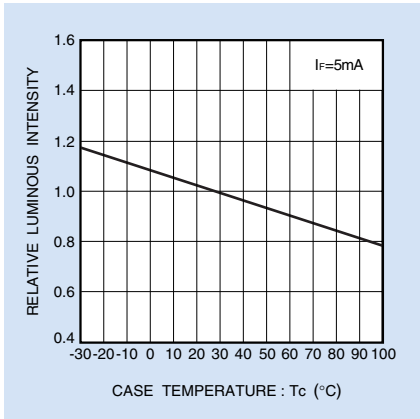
■Electrical Characteristic Curves

Forward Current - Forward Voltage



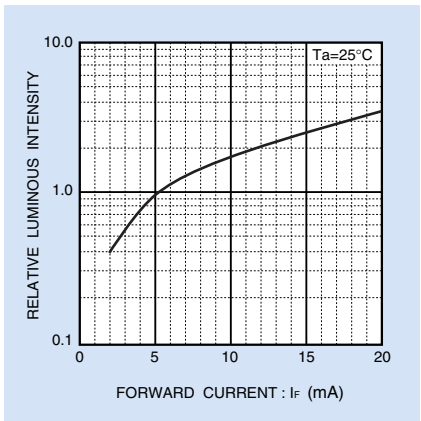
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Relative Luminous Intensity - Case Temperature



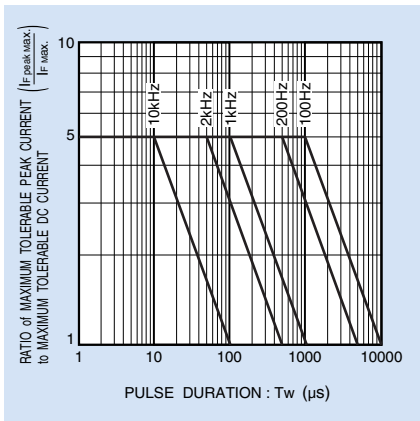
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Relative Luminous Intensity - Forward Current



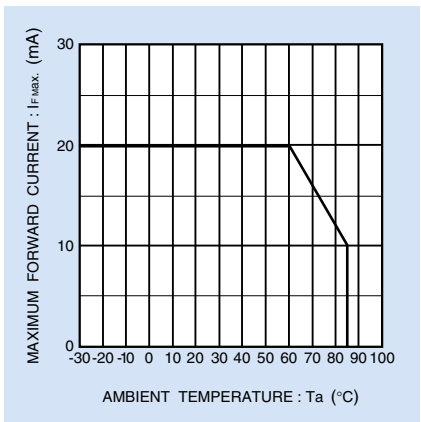
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Ratio of Maximum Tolerable Peak Current - Pulse Duration



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Derating



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SMLE12EC6T

Notes

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