

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

SML-311 Series

Emitting Color	Yellow	Orange	Red
Material	AlGaNp on GaAs		
Package Size(mm)			
1608(0603) 1.6×0.8(t=0.8)			
Part No.	SML-311YT	SML-311WT	SML-311DT
	SML-311UT		

Absolute Maximum Ratings (Ta=25°C)

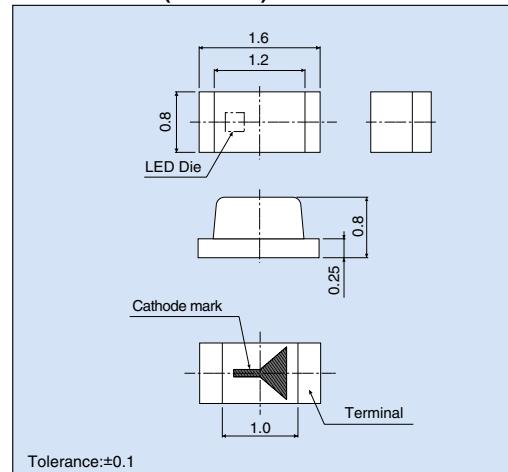
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current $*I_{FP}$ (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (C)	Storage temperature T_{stg} (C)
SML-311YT	Yellow						
SML-311WT		44	20	60	4	-30 to +85	-40 to +85
SML-311DT	Orange						
SML-311UT	Red						

*:Duty $\leq 1/5$, pulse width $\leq 1\text{ms}$.

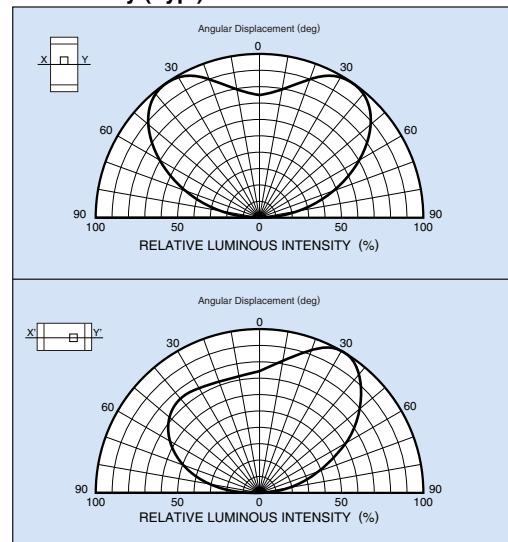
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Dominant Half-wave λ_D		Brightness I_v			
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Typ. (nm)	$\Delta\lambda$ (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML-311YT						587	15		0.9	2.5	
SML-311WT	Transparent	1.8	2	100	4	590					
SML-311DT	Colorless					605	16	2	1.6	3.15	
SML-311UT						620	18		0.9	2.5	

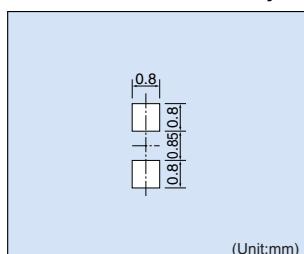
Dimensions (Unit:mm)



Directivity (Typ.)

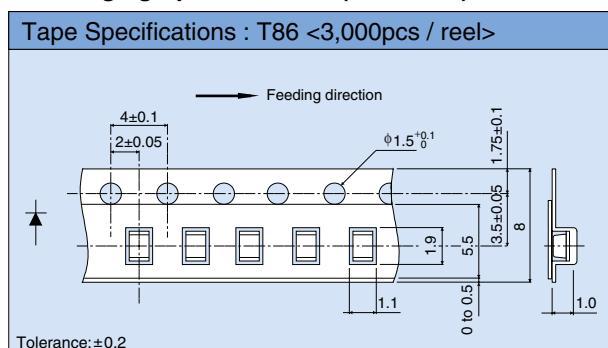


Recommended Pad Layout

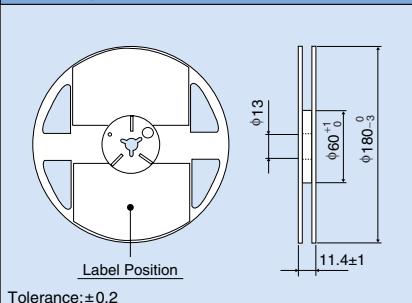


The recommended thickness of the screen mask for soldering is between 100 and 150 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

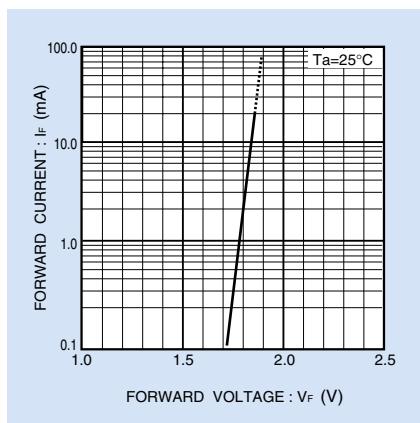


Reel Specifications

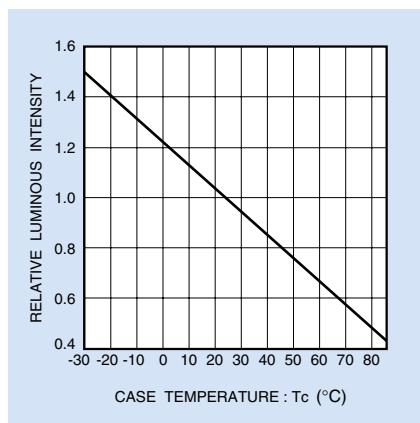


■ Electrical Characteristic Curves

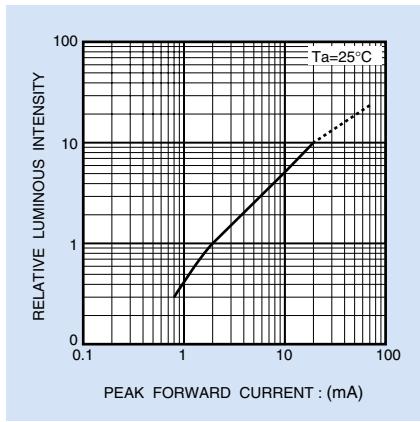
Forward Current - Forward Voltage



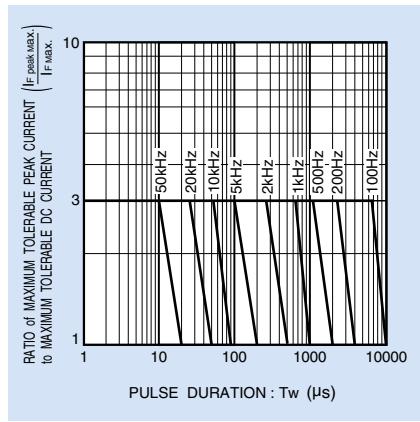
Relative Luminous Intensity - Case Temperature



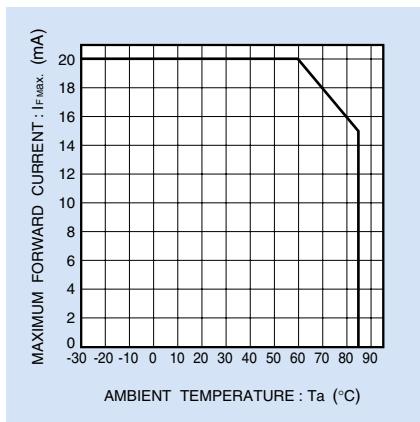
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Appendix

Notes

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