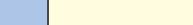
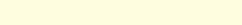
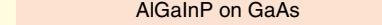


SML-311 Series

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)

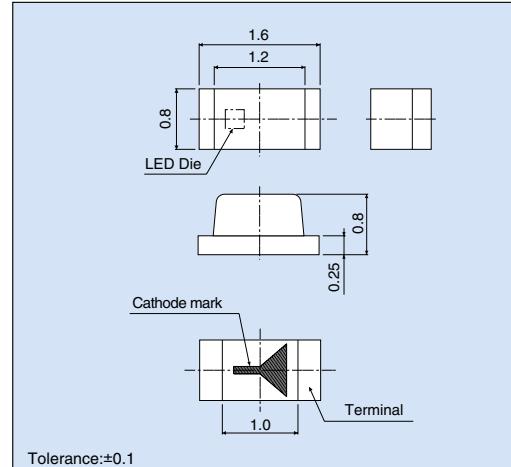
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current $\ast I_{FP}$ (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
SML-311YT	Yellow						
SML-311WT							
SML-311DT	Orange	44	20	60	4	-30 to +85	-40 to +85
SML-311UT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

*:Duty \leq 1/ 5,pulse width \leq 1ms.

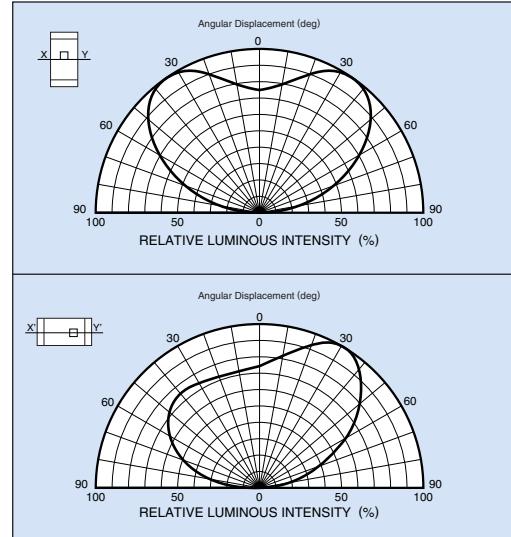
■ Electrical Optical Characteristics (Ta=25°C)

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

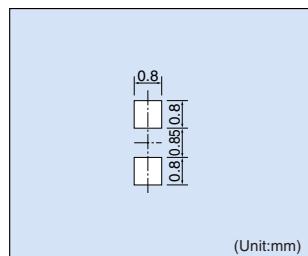
■Dimensions (Unit:mm)



■ Directivity (Typ.)



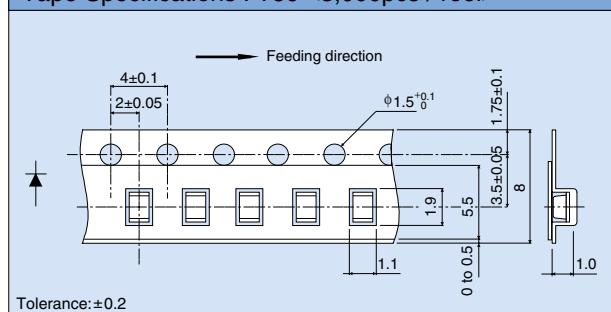
■ Recommended Pad Layout



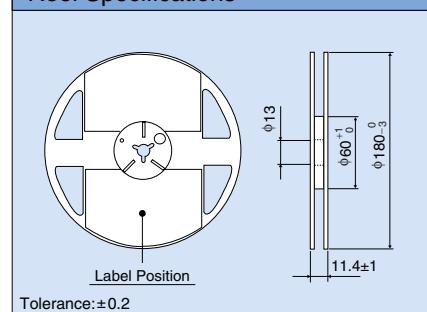
The recommended thickness of the screen mask for soldering is between 100 and 150 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Specifications (Unit : mm)

Tape Specifications : T86 <3.000pcs / reel>

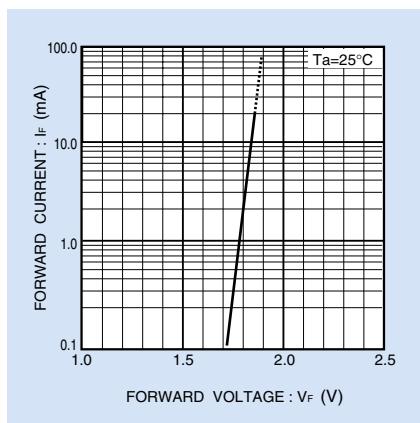


Reel Specifications

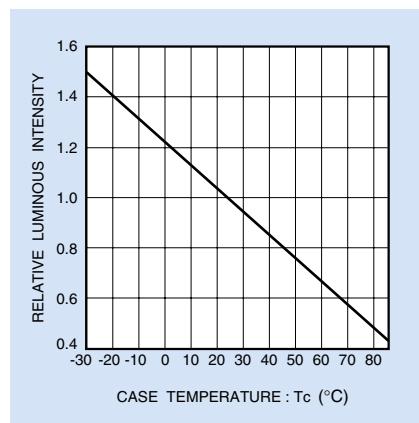


■ Electrical Characteristic Curves

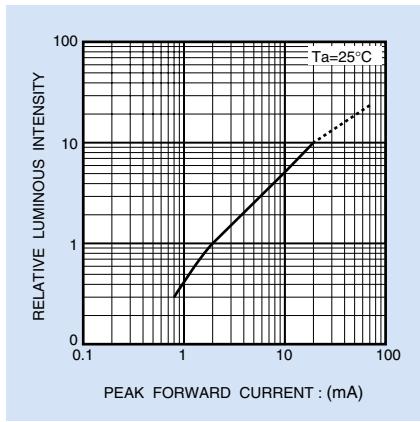
Forward Current - Forward Voltage



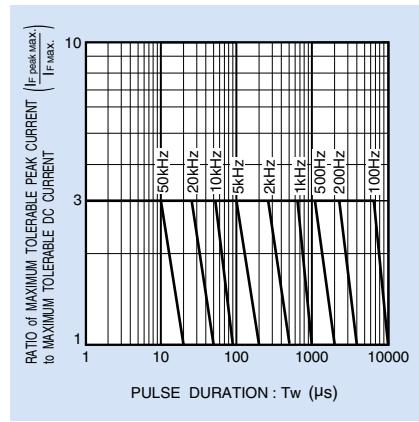
Relative Luminous Intensity - Case Temperature



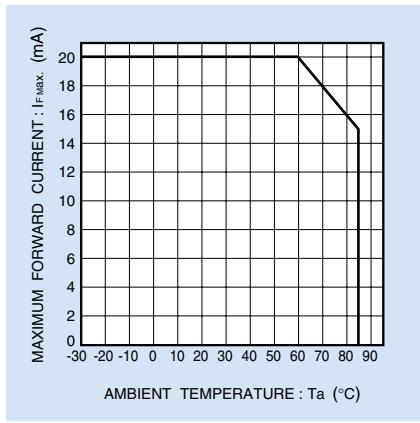
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Appendix

Notes

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