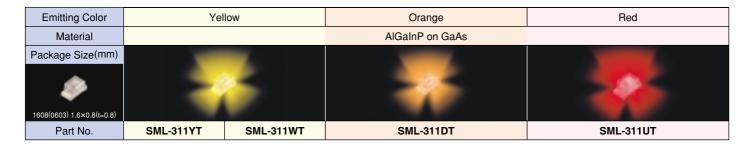
0603<1.6×0.8 t=0.8mm> Low Current Type(IF≦10mA)



SML-311 Series



■ Absolute Maximum Ratings (Ta=25°C)

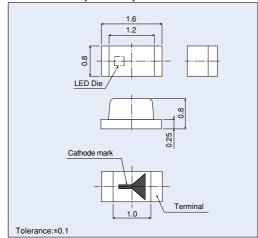
Part No.	Emitting color	Power dissipation Pp (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature T _{stg} (°C)	
SML-311YT	Yellow	44	20					
SML-311WT	Yellow			60	4	-30 to +85	-40 to +85	
SML-311DT	Orange			00	4	-30 10 +03	-40 10 +65	
SML-311UT	Red							

^{*:}Duty ≦1/5,pulse width ≦1ms.

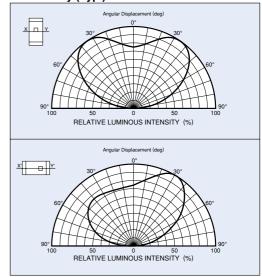
■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SML-311YT						590	15				
SML-311WT	Transparent	1.8	2	100	4	390	15	2	0.9	2.5	2
SML-311DT	Colorless	1.0		100	4	611	16		0.9	2.5	
SML-311UT						630	18				

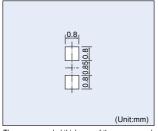
■Dimensions (Unit:mm)



■Directivity (Typ.)

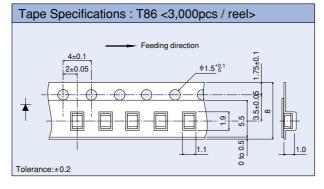


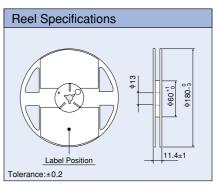
■Recommended Pad Layout



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

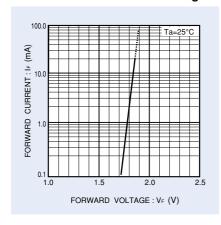
■ Packaging Specifications (Unit : mm)





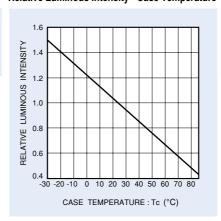
■ Electrical Characteristic Curves

Forward Current - Forward Voltage



SML-311YT SML-311WT SML-311DT SML-311UT

Relative Luminous Intensity - Case Temperature



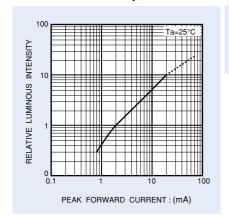
SML-311YT SML-311WT SML-311DT SML-311UT

SML-311YT

SML-311WT

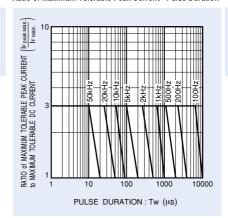
SML-311UT

Relative Luminous Intensity - Forward Current

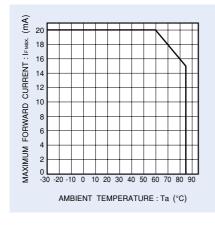


SML-311YT SML-311WT SML-311DT SML-311UT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



SML-311YT SML-311WT SML-311DT SML-311UT

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