



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

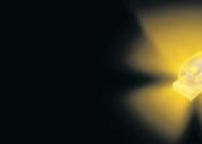


Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

SML-311 Series

Emitting Color	Yellow		Orange	Red
Material			AlGaInP 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)

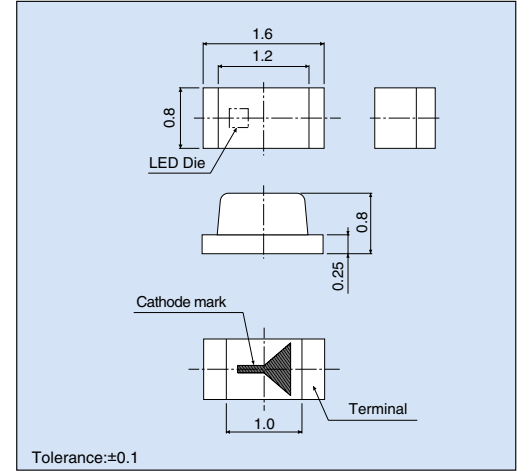
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current *I _{FP} (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SML-311YT	Yellow	44	20	60	4	-30 to +85	-40 to +85
SML-311WT							
SML-311DT	Orange						
SML-311UT	Red						

*:Duty ≤ 1/5, pulse width ≤ 1ms.

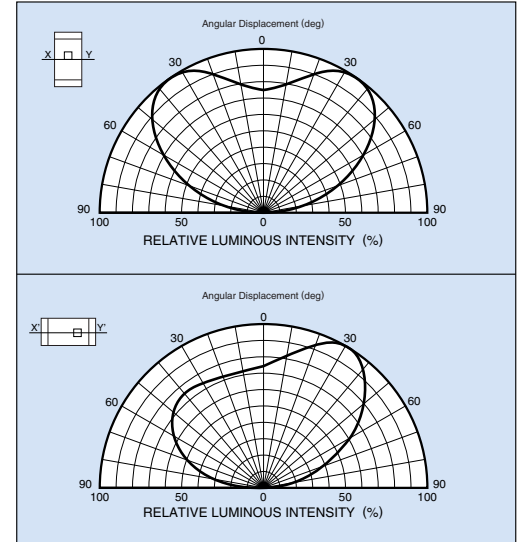
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength			Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Dominant λ _D (nm)	Half-wave Δλ (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-311YT	Transparent Colorless	1.8	2	100	4	587	15	2	0.9	2.5	2
SML-311WT						590					
SML-311DT						605	16		1.6	3.15	
SML-311UT						620	18		0.9	2.5	

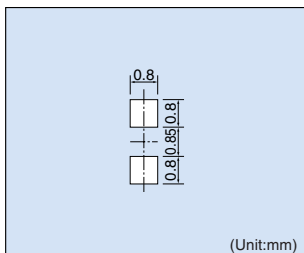
■ Dimensions (Unit:mm)



■ Directivity (Typ.)

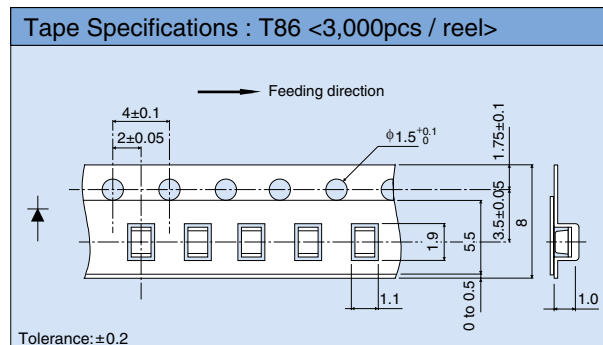


■ Recommended Pad Layout

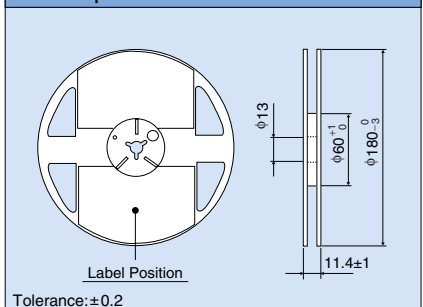


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Specifications (Unit : mm)

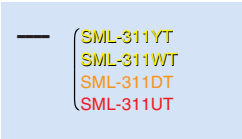
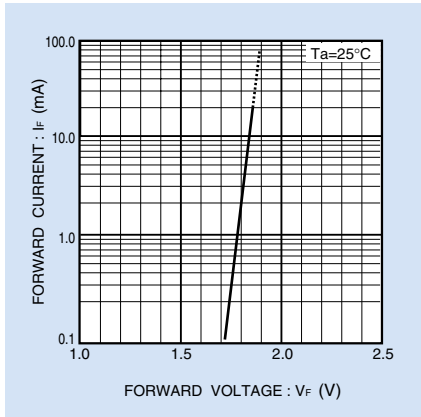


Reel Specifications

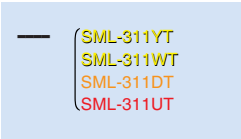
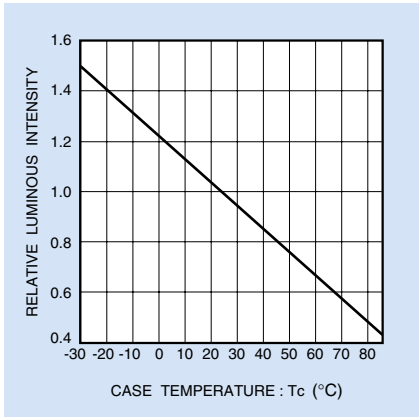


■ Electrical Characteristic Curves

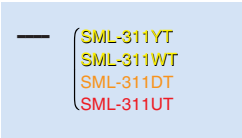
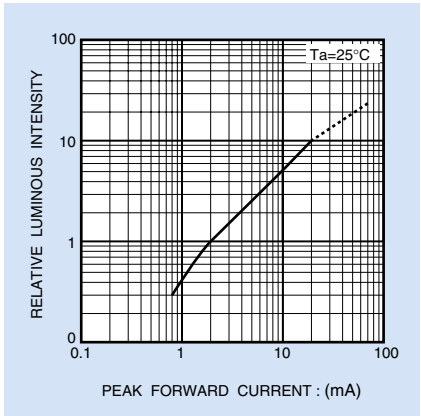
Forward Current - Forward Voltage



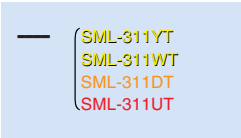
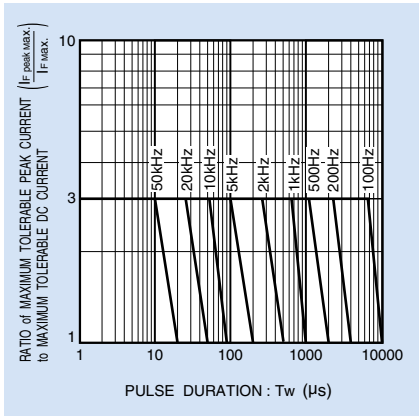
Relative Luminous Intensity - Case Temperature



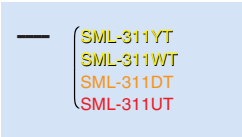
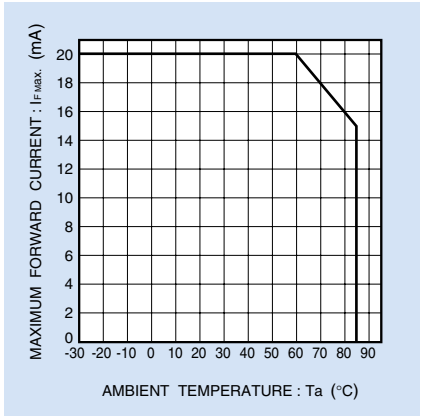
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Notes

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