



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!



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Standard Type Mini-molded chip LEDs

SML-310 Series

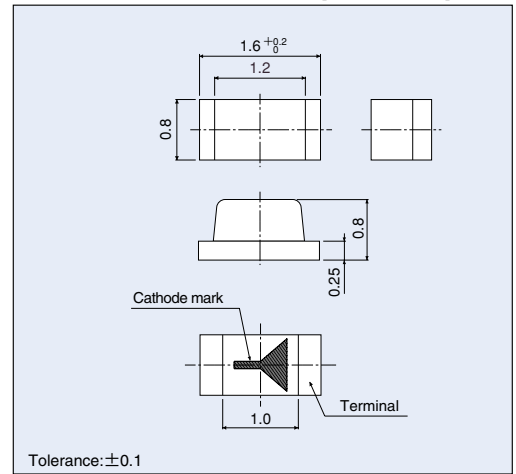
Package Size (mm)	Pure Green	Green	Yellow	Orange	Red	
	GaP			GaAsP on Gap		GaAlAs on GaAs
	555nm	570nm	585nm	610nm	650nm	660nm
1608 (0603) 1.6x0.8 t=0.8						
	SML-310PT	SML-310MT	SML-310YT	SML-310DT	SML-310VT	SML-310LT

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SML-310PT	Pure Green	55	20	60	4	-30 to +85	-40 to +85
SML-310MT	Green						
SML-310YT	Yellow						
SML-310DT	Orange	60	25	75			
SML-310VT	Red						
SML-310LT	Red						

* IFP measured under duty ≤ 1/5, pulse width ≤ 1ms.

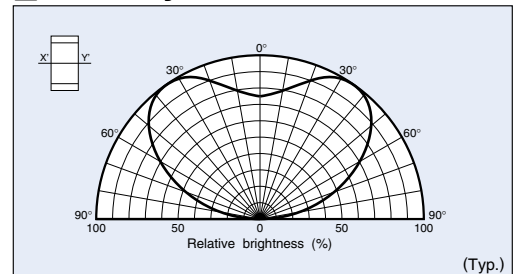
External Dimensions (Unit : mm)



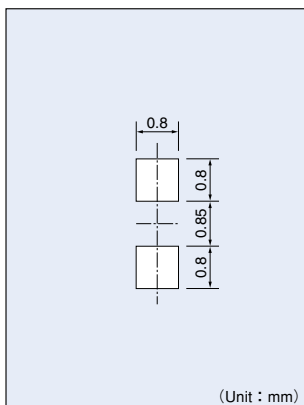
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage VF		Reverse current IR		Light wavelength			Brightness Iv		
		Typ. (V)	IF (mA)	Max. (μA)	VR (V)	Peak λp (nm)	Half-wave Δλ (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
SML-310PT	Transparent	2.2	20	100	4	555	40	20	1.4	4	
SML-310MT						570			3.6	16	
SML-310YT						585			2.2	6.3	20
SML-310DT	Clear	2.0				610			1.4	4	
SML-310VT						650	3.6	16			
SML-310LT		1.75				660	25				

Directivity

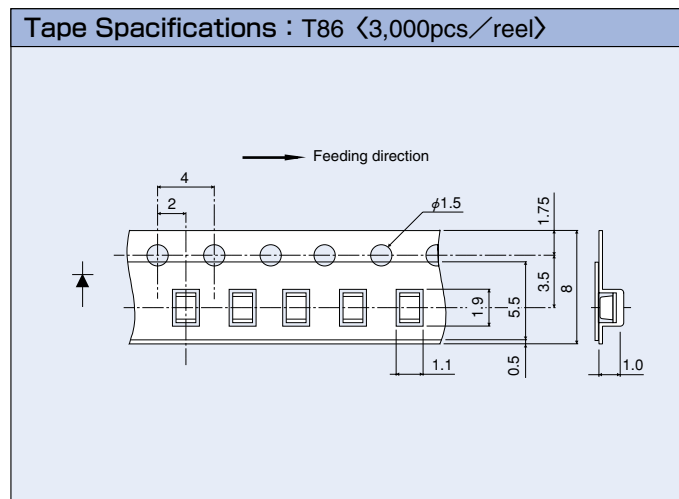


Recommended Pad Layout

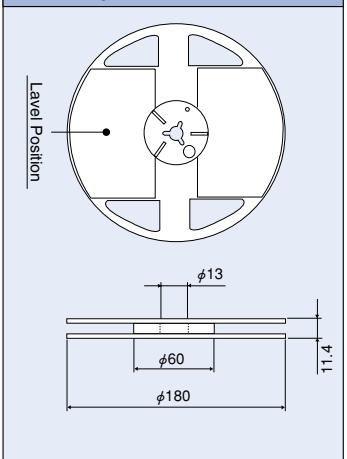


The recommended thickness of the screen mask for soldering is between 100 and 200 μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

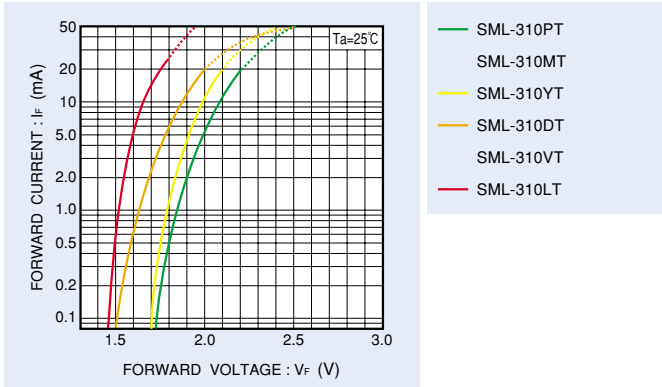


Reel Specifications

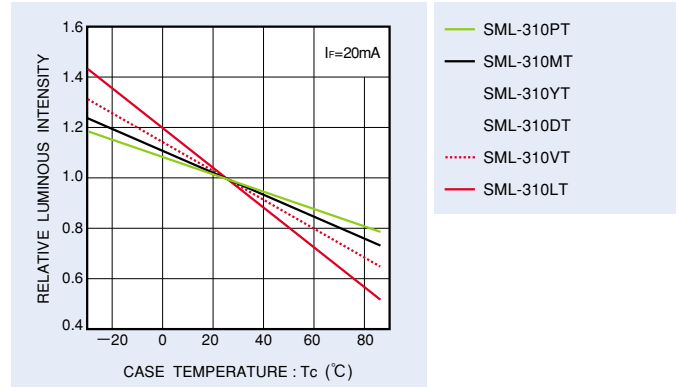


Electrical Characteristic Curves

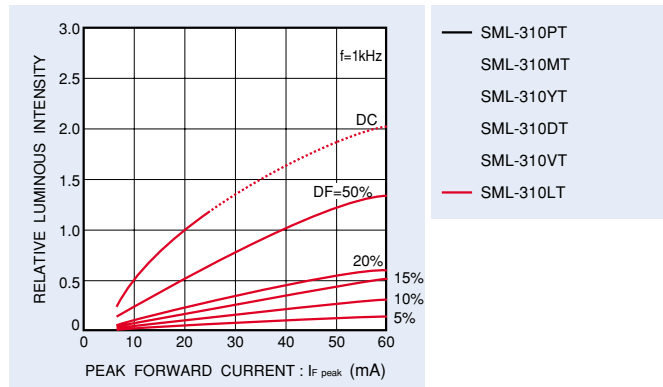
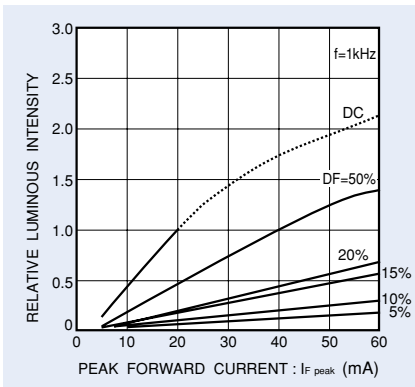
Forward Current - Forward Voltage



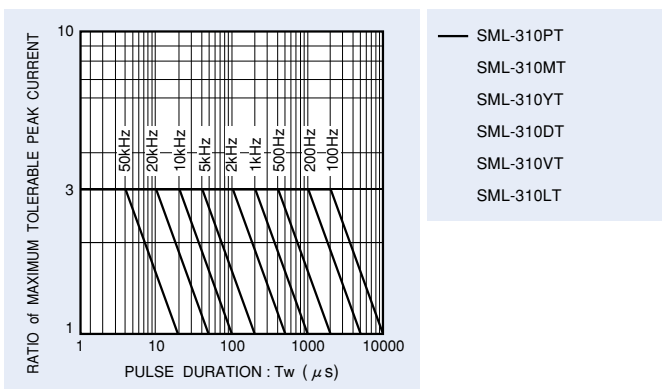
Relative Luminous Intensity - Case Temperature



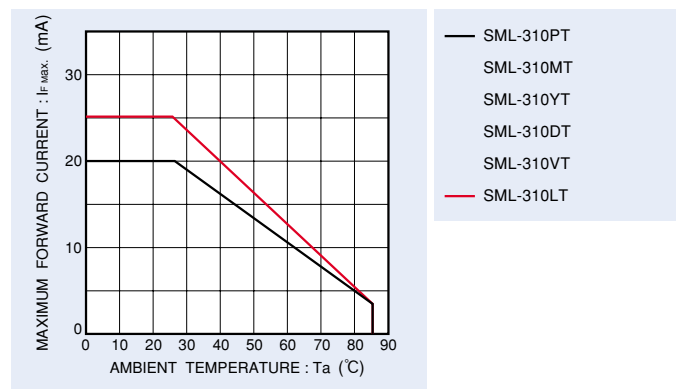
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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