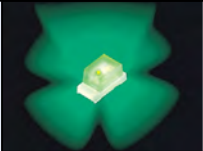
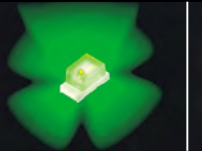

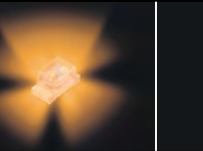
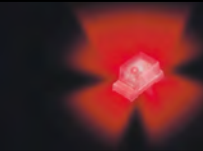
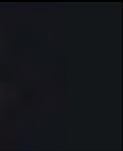


# Standard Type    Mini-molded chip LEDs

## 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)

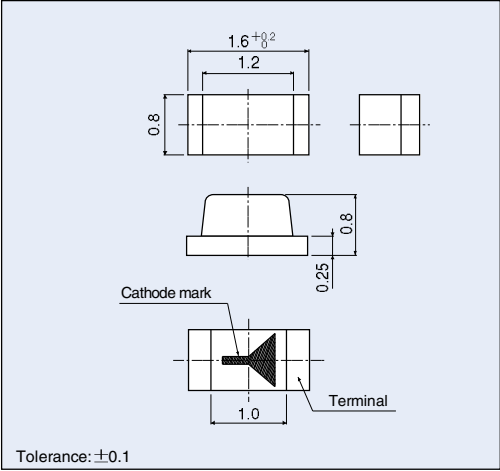
Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current * I <sub>FP</sub> (mA)	Reverse voltage VR (V)	Operating temperature T <sub>opr</sub> (°C)	Stotage temperature T <sub>stg</sub> (°C)
SML-310PT	Pure Green	55	20	60	4	-30 to +85	-40 to +85
SML-310MT	Green						
SML-310YT	Yellow						
SML-310DT	Orange						
SML-310VT	Red	60	25	75			
SML-310LT	Red						

\* I<sub>FP</sub> measured under duty ≤1/ 5,pulse width ≤1ms.

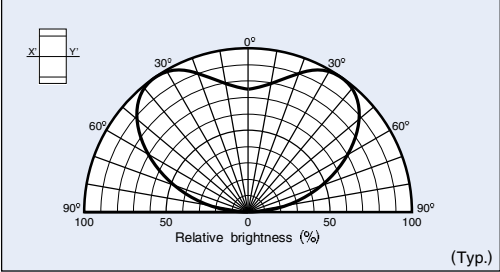
### Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current I <sub>R</sub>		Light wavelength Peak λ <sub>p</sub> Half-wave Δλ			Brightness I <sub>v</sub>		
		Typ. (V)	I <sub>F</sub> (mA)	Max. (μA)	V <sub>R</sub> (V)	Typ. (nm)	Typ. (nm)	I <sub>F</sub> (mA)	Min. (mcd)	Typ. (mcd)	I <sub>F</sub> (mA)
SML-310PT	Transparent Clear	2.2	20	100	4	555	40	20	1.4	4	20
SML-310MT						570			3.6	16	
SML-310YT		2.1				585			2.2	6.3	
SML-310DT		2.0				610			1.4	4	
SML-310VT						650					
SML-310LT						1.75					

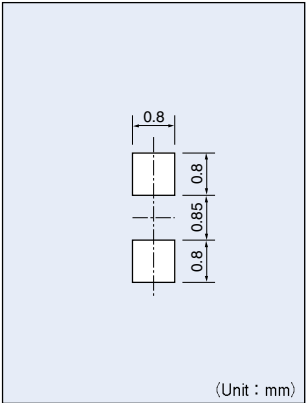
### External Dimensions (Unit : mm)



### Directivity

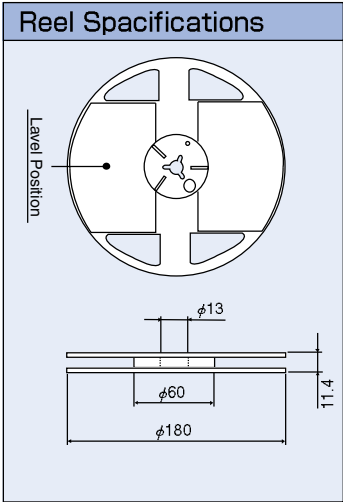
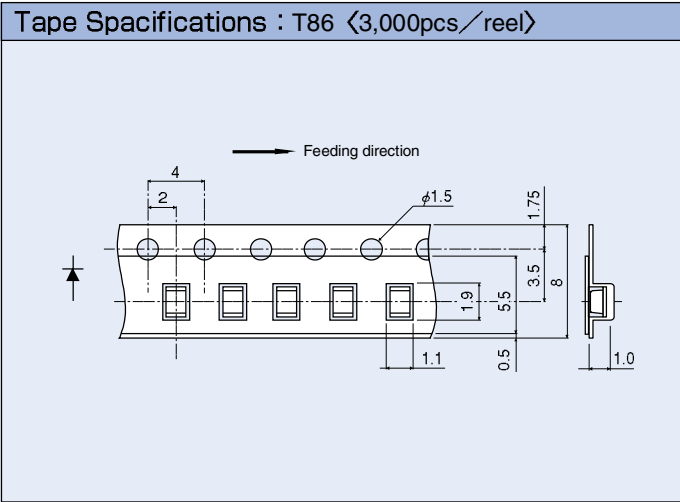


### Recommended Pad Layout



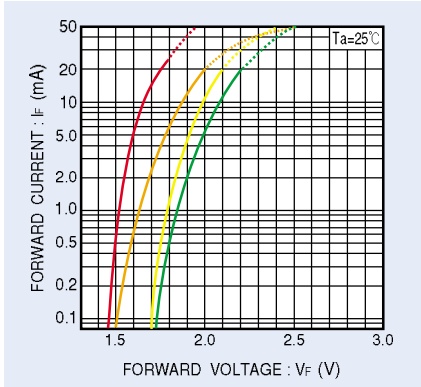
The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

### Packaging Specifications (Unit : mm)

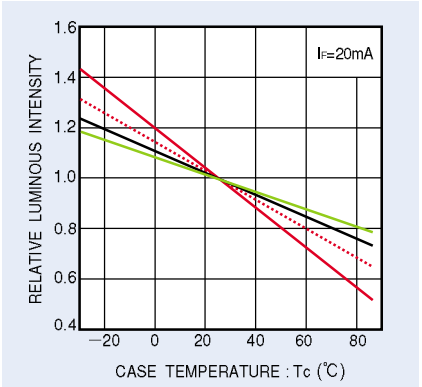


## Electrical Characteristic Curves

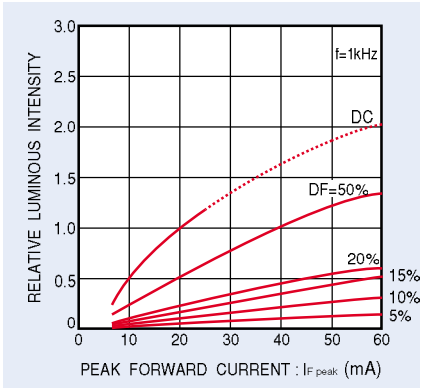
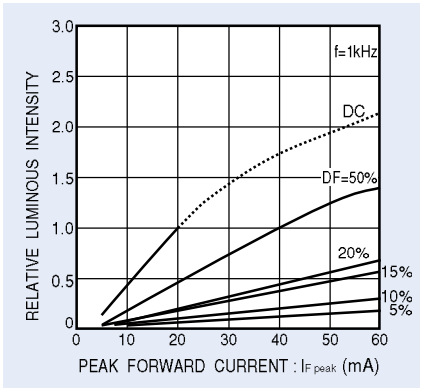
Forward Current - Forward Voltage



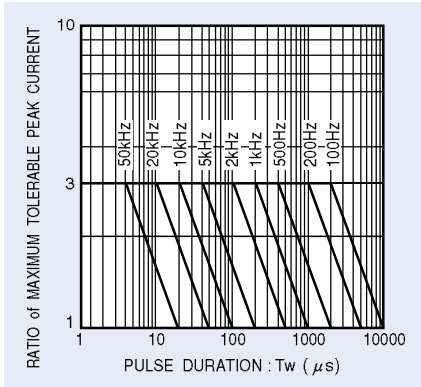
Relative Luminous Intensity - Case Temperature



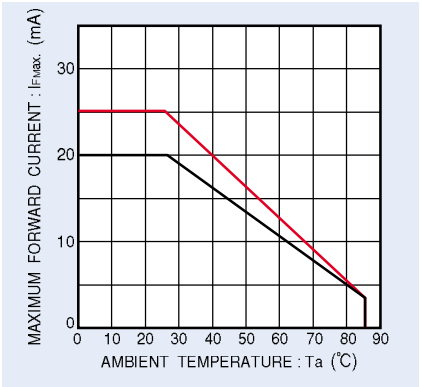
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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