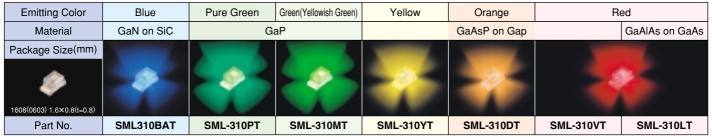
0603<1.6×0.8 t=0.8mm Standard Type



SML-310 Series



note) "-" will be taken out for emitting color B/E series.

■ Absolute Maximum Ratings (Ta=25°C)

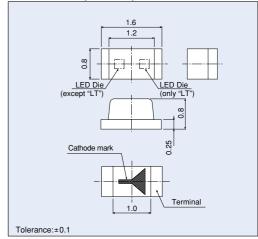
Part No.	Emitting color	Power dissipation Pp (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SML310BAT	Blue	94		70	5		-40 to +100
SML-310PT	Pure Green						
SML-310MT	Green (Yellowish Green)		00				
SML-310YT	Yellow	55	20	60		-30 to +85	40 +- 05
SML-310DT	Orange				4		-40 to +85
SML-310VT	Red						
SML-310LT	Red	60	25	75			

^{*:}Duty ≤1/5, pulse width ≤ 1 ms.

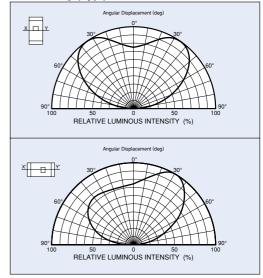
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ. (V)	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
SML310BAT	Transparent Colorless	3.8			5	428	65		1.4	3.6	
SML-310PT		2.2				555			1.4	4	
SML-310MT					4	570		20	3.6	16	
SML-310YT		2.1	20	100		585	40		2.2	6.3	20
SML-310DT		2.0				610					
SML-310VT						650			1.4	4	
SML-310LT		1.75				660	25		3.6	10	

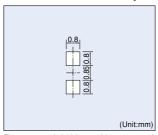
■Dimensions (Unit:mm)



■ Directivity (Typ.)

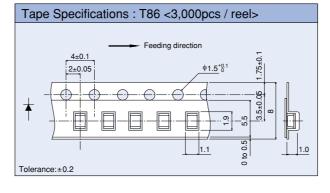


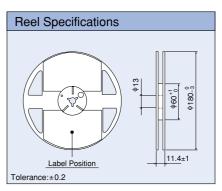
■ Recommended Pad Layout



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.

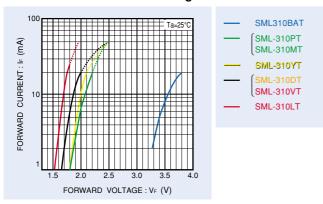
■ Packaging Specifications (Unit: mm)



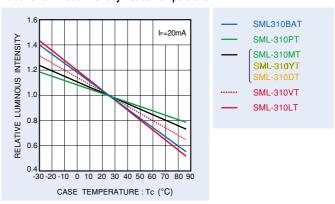


■Electrical Characteristic Curves

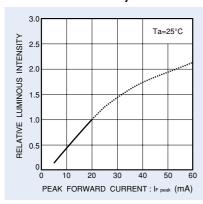
Forward Current - Forward Voltage



Relative Luminous Intensity - Case Temperature

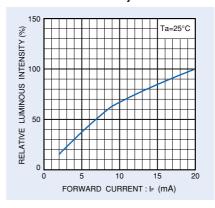


Relative Luminous Intensity - Forward Current



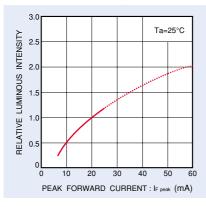
SML-310PT SML-310MT SML-310YT SML-310DT SML-310VT

Relative Luminous Intensity - Forward Current



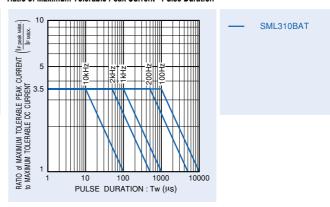
SML310BAT

Relative Luminous Intensity - Forward Current

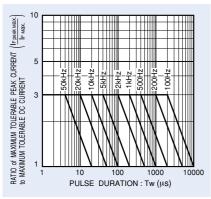


- SML-310LT

Ratio of Maximum Tolerable Peak Current - Pulse Duration

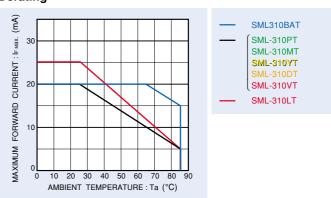


Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-310PT SML-310MT SML-310YT SML-310DT SML-310VT SML-310LT

Derating



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