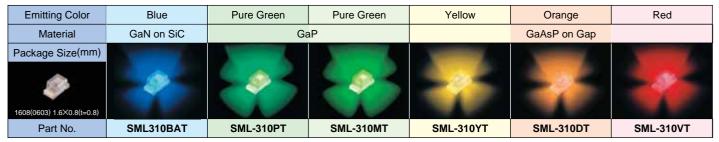
0603<1.6×0.8 t=0.8mm Standard Type





SML-310 Series



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

■ Absolute Maximum Ratings (Ta=25°C)

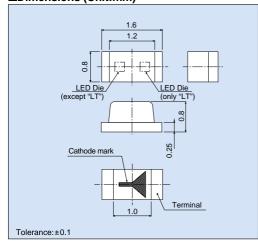
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr (C)	Storage temperature Tstg (C)
SML310BAT	Blue	94		70	5		-40 to +100
SML-310PT	Pure Green						
SML-310MT	Green (Yellowish Green)		20				
SML-310YT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

^{*:}Duty ≤1/5, pulse width ≤ 1ms.

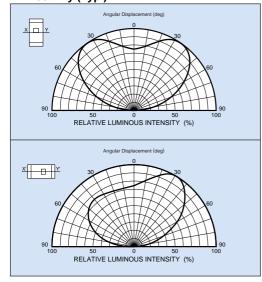
■ Electrical Optical Characteristics (Ta=25°C)

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

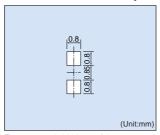
■Dimensions (Unit:mm)



■ Directivity (Typ.)

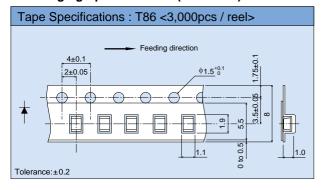


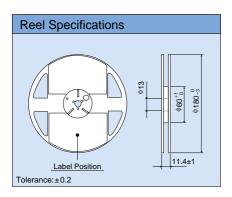
■ Recommended Pad Layout



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.

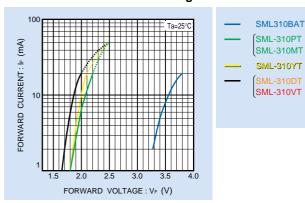
■ Packaging Specifications (Unit: mm)





■Electrical Characteristic Curves

Forward Current - Forward Voltage



SML-310PT

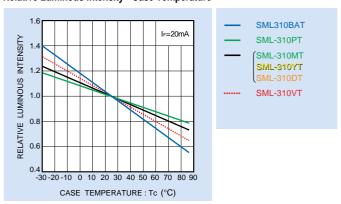
SML-310MT

SML-310YT

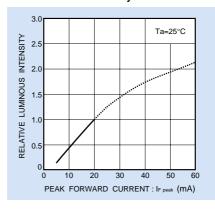
SML-310VT

SML310BAT

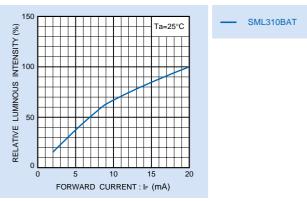
Relative Luminous Intensity - Case Temperature



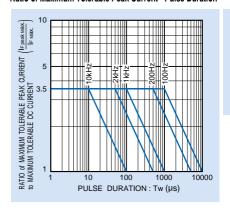
Relative Luminous Intensity - Forward Current



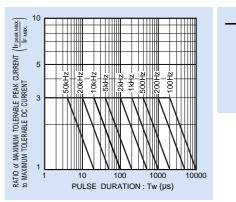
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



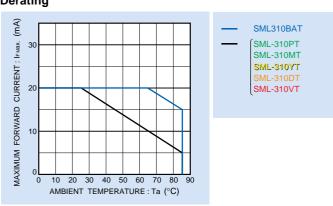
Ratio of Maximum Tolerable Peak Current - Pulse Duration



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

SML-310PT

Derating



Notes

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Appendix1-Rev2.0

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