

0603<1.6×0.8 t=0.55mm>
Standard Type

SML-510 Series

Emitting Color	Green(Yellowish Green)		
Material	GaP		
Package Size(mm)			
	1608(0603) 1.6×0.8(t=0.55)		
Part No.	SML-510MW		

■ Absolute Maximum Ratings (Ta=25°C)

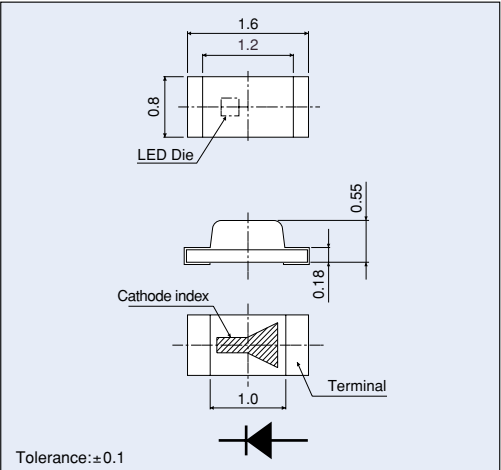
Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SML-510MW	Green (Yellowish Green)	55	20	60	4	-30 to +85	-40 to +85

*:Duty ≤1/5, pulse width ≤1ms.

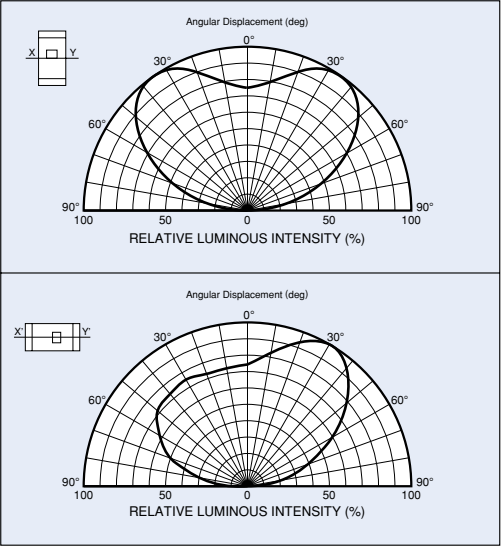
■ Electrical Optical Characteristics (Ta=25°C)

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-510MW	Milky White	2.2	20	100	4	570	40	20	3.6	16	20

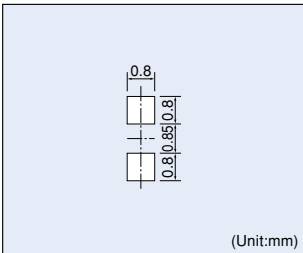
■ Dimensions (Unit:mm)



■ Directivity (Typ.)

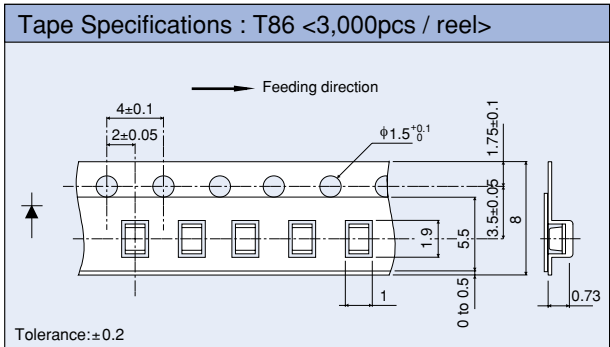


■ Recommended Pad Layout

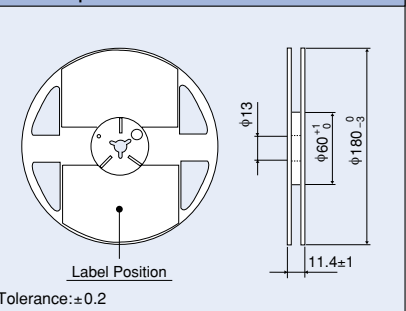


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Specifications (Unit : mm)

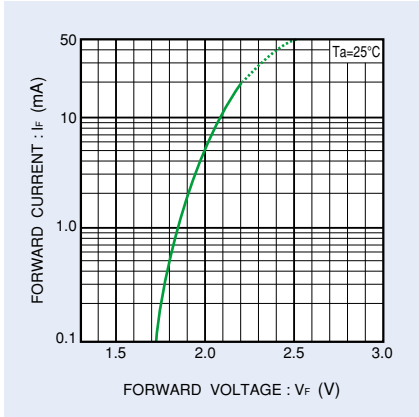


Reel Specifications



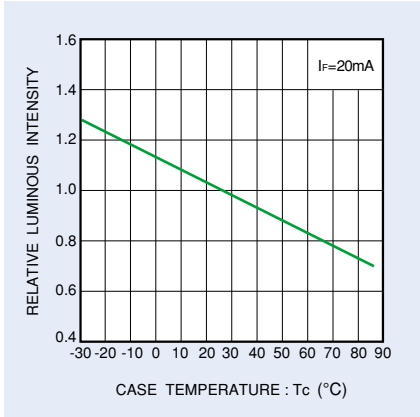
■ Electrical Characteristic Curves

Forward Current - Forward Voltage



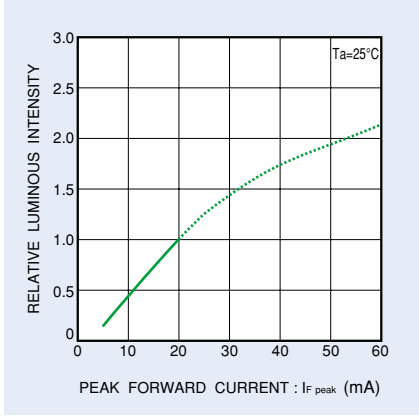
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Relative Luminous Intensity - Case Temperature



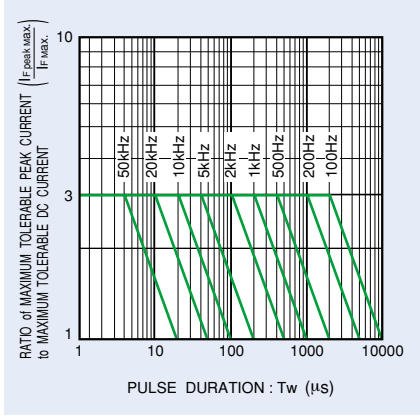
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Relative Luminous Intensity - Forward Current



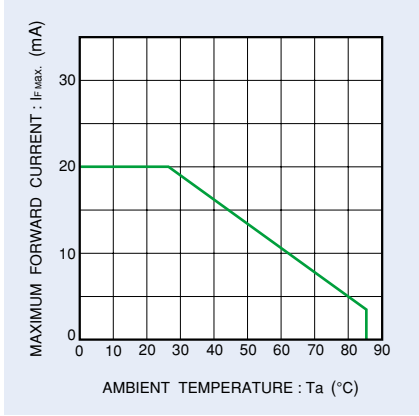
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Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-510MW

Derating



SML-510MW

Notes

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