

# 0805<2.0×1.25 t=0.8mm> Low Current Type(I<sub>F</sub>≤10mA)

## SML-211 Series

Emitting Color	Yellow		Orange	Red
Material	AlGaInP on GaAs			
Package Size(mm)				
Part No.	SML-211YT	SML-211WT	SML-211DT	SML-211UT

### Absolute Maximum Ratings (Ta=25°C)

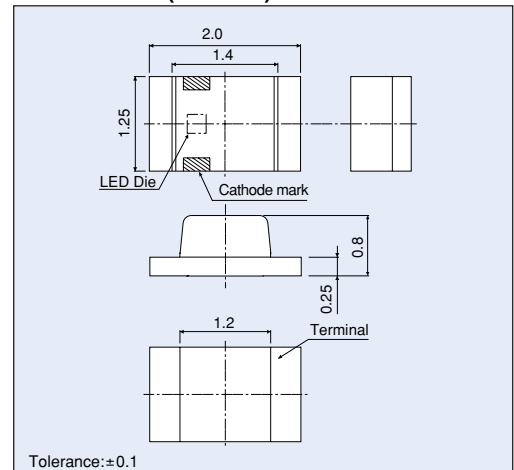
Part No.	Emitting color	Power dissipation P <sub>D</sub> (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current * I <sub>FP</sub> (mA)	Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)
SML-211YT	Yellow	44	20	60	4	-30 to +85	-40 to +85
SML-211WT							
SML-211DT	Orange						
SML-211UT	Red						

\*:Duty ≤ 1/5, pulse width ≤ 1ms.

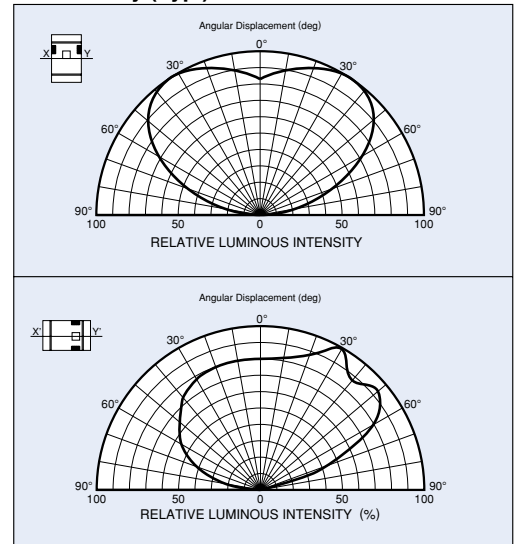
### Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current I <sub>R</sub>		Light wavelength		Brightness I <sub>v</sub>			
		Typ. (V)	I <sub>F</sub> (mA)	Max. (μA)	V <sub>R</sub> (V)	Peak λ <sub>p</sub> Typ. (nm)	Half-wave Δλ Typ. (nm)	I <sub>F</sub> (mA)	Min. (mcd)	Typ. (mcd)	I <sub>F</sub> (mA)
SML-211YT	Transparent Colorless	1.8	2	100	4	590	15	2	1.4	4	2
SML-211WT						611	16				
SML-211DT						630	18	0.9	2.5		
SML-211UT											

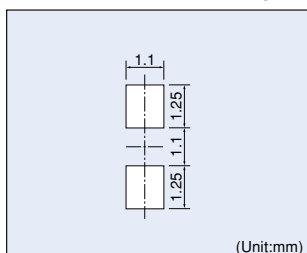
### Dimensions (Unit:mm)



### Directivity (Typ.)

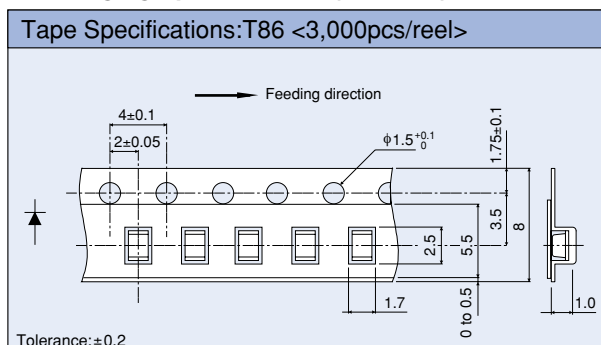


### Recommended Pad Layout

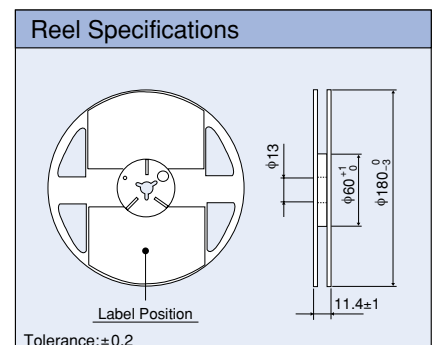


The recommended thickness of the screen mask for soldering is between 100 and 150 μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

### Packaging Specifications (Unit:mm)

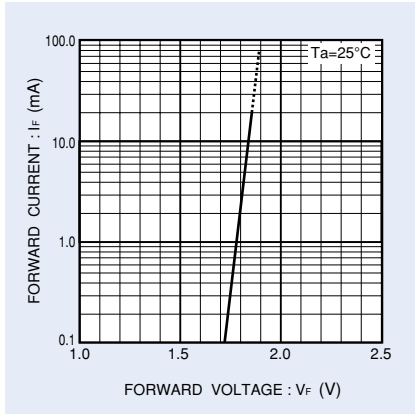


### Reel Specifications



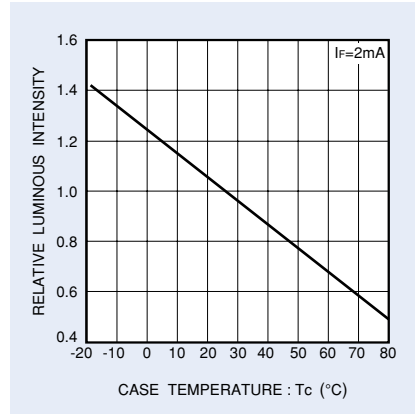
## Electrical Characteristic Curves

### Forward Current - Forward Voltage



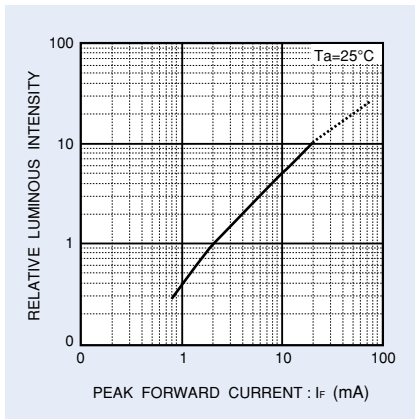
— ( SML-211YT  
SML-211WT  
SML-211DT  
SML-211UT

### Relative Luminous Intensity - Case Temperature



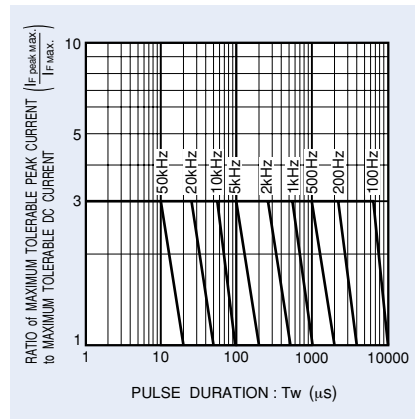
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SML-211WT  
SML-211DT  
SML-211UT

### Relative Luminous Intensity - Forward Current



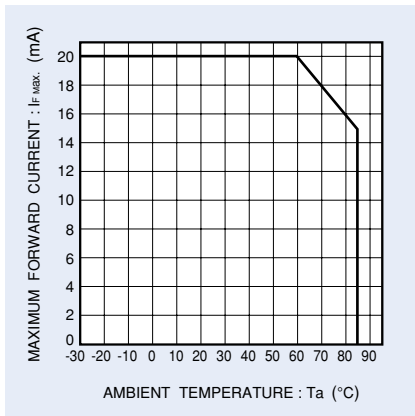
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### Ratio of Maximum Tolerable Peak Current - Pulse Duration



— ( SML-211YT  
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SML-211UT

### Derating



— ( SML-211YT  
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SML-211DT  
SML-211UT

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