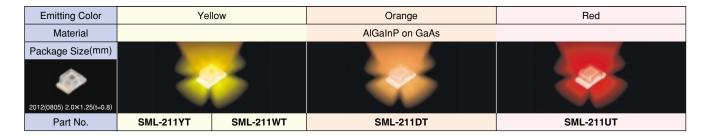
# 0805<2.0×1.25 t=0.8mm> Low Current Type(IF≦10mA)



# SML-211 Series



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

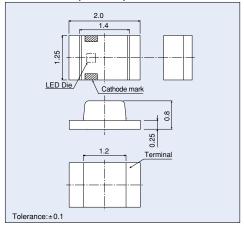
Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage V <sub>R</sub> (V)	Operating temperature Topr	Storage temperature T <sub>stg</sub> (°C)	
SML-211YT	Yellow	44	20	60	4	-30 to +85		
SML-211WT	reliow						-40 to +85	
SML-211DT	Orange				4	-30 10 +85	-40 (0 +85	
SML-211UT	Red							

<sup>\*:</sup>Duty ≤ 1/5, pulse width ≤ 1 ms.

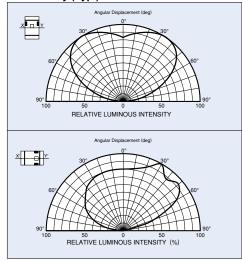
#### ■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current In		Light wavelength  Peak Half-wave  λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SML-211YT						590	15		1.4	4	
SML-211WT	Transparent	1.0	2	100	4	590	15	2	1.4	4	2
SML-211DT	Colorless	1.8	2	100	4	611	16	] 2	0.9	2.5	2
SML-211UT						630	18		0.9	2.5	

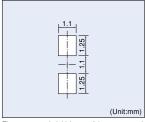
## **■**Dimensions (Unit:mm)



## ■ Directivity (Typ.)

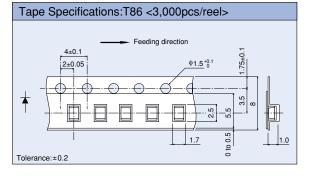


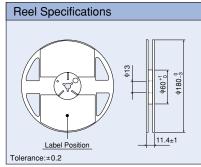
# ■Recommended Pad Layout



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.

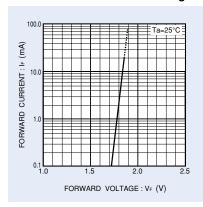
# ■ Packaging Specifications (Unit:mm)





#### **■**Electrical Characteristic Curves

## **Forward Current - Forward Voltage**



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

# **Relative Luminous Intensity - Case Temperature**

SML-211YT

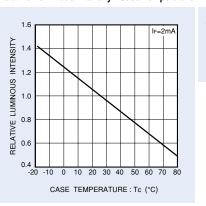
SML-211WT

SML-211UT

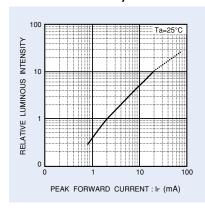
SML-211YT

SML-211WT

SML-211UT

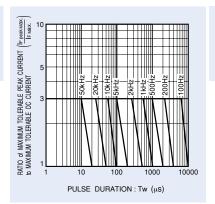


**Relative Luminous Intensity - Forward Current** 

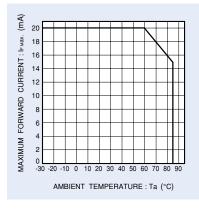


SML-211YT
SML-211WT
SML-211DT
SML-211UT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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

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Appendix1-Rev1.1