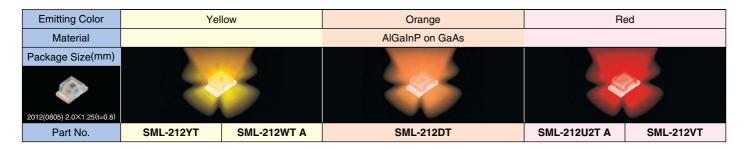
# 0805<2.0×1.25 t=0.8mm> High Brightness Type



## SML-212 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)	
SML-212YT	\			60 *1	4	-30 to +85	-40 to +85	
SML-212WT A	Yellow			100 *2	5	-40 to +100	-40 to +100	
SML-212DT	Orange	75	30	60 *1	4	-30 to +85	-40 to +85	
SML-212U2T A	Red			100 *2	5	-40 to +100	-40 to +100	
SML-212VT	neu			60 *1	4	-30 to +85	-40 to +85	

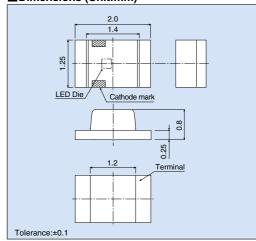
<sup>\*1:</sup>Duty ≦ 1/5, pulse width ≦ 1ms. \*2:Duty ≦ 1/10, 1kHz

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

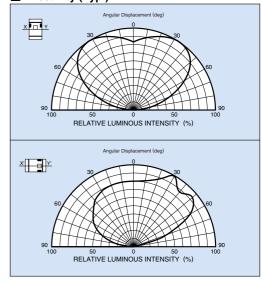
Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current IR		Light wavelength  Peak Half-wave  λρ Δλ			Brightness Iv		
		Typ.	lF * (mA)	Max. (µA)	Vr (V)	Typ. (nm)	Typ. (nm)	lF∗ (mA)	Min. (mcd)	Typ. (mcd)	IF* (mA)
SML-212YT	Transparent Colorless	2.05		100	4	591	15		22	63	
SML-212WT A		2.0		10	5	590	15		112	224	
SML-212DT		2.05	20	100	4	611	17	20	25	63	20
SML-212U2T A		2.0		10	5	625	17		71	140	
SML-212VT		2.05		100	4	639	20		22	63	

<sup>\*</sup> Pulse width : 30ms (SML-212WT A / SML-212U2T A)

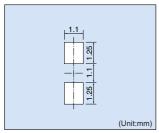
#### **■**Dimensions (Unit:mm)



## ■ Directivity (Typ.)

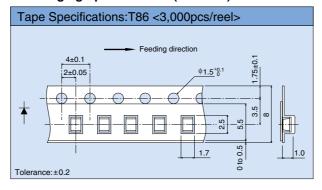


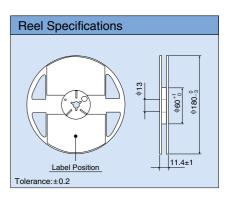
#### ■Recommended Pad Layout



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.

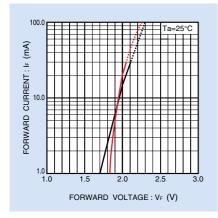
## ■Packaging Specifications (Unit:mm)





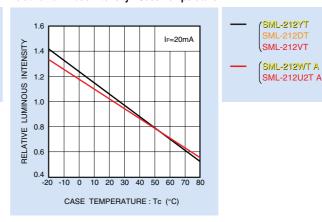
#### **■**Electrical Characteristic Curves

#### Forward Current - Forward Voltage

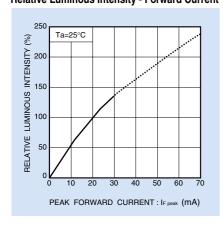




## Relative Luminous Intensity - Case Temperature

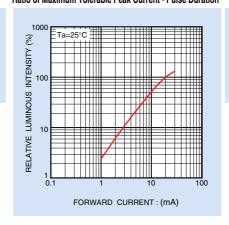






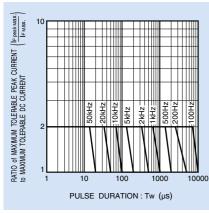






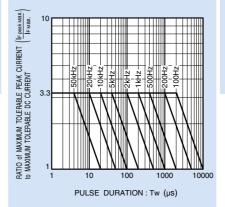


Ratio of Maximum Tolerable Peak Current - Pulse Duration



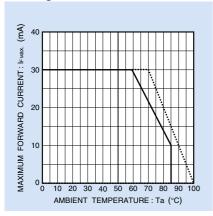


## Ratio of Maximum Tolerable Peak Current - Pulse Duration



(SML-212WT A SML-212U2T A

### **Derating**





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