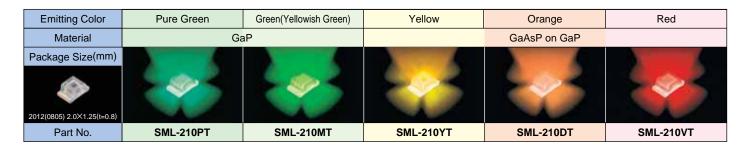
# 0805<2.0×1.25 t=0.8mm> **Standard Type**

## SML-210 Series



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

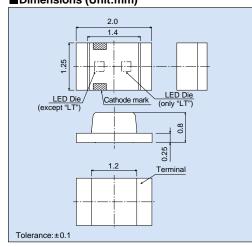
Part No.	Emitting color	Power dissipation PD (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr ( C)	Storage temperature T <sub>stg</sub> ( C)
SML-210PT	Pure Green						
SML-210MT	Green (Yellowish Green)						
SML-210YT	Yellow	70	25	60	4	-30 to +85	-40 to +85
SML-210DT	Orange						
SML-210VT	Red						

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

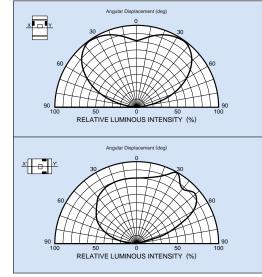
#### **■**Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current I <sub>R</sub>		Light wavelength  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-210PT		2.2				555			1.4	4	
SML-210MT	Transparent Colorless					570			3.6	16	
SML-210YT		2.1	20	100	4	585	40	20	2.2	6.3	20
SML-210DT		2.0				610			2.2	0.3	
SML-210VT		2.0				650			1.4	4	

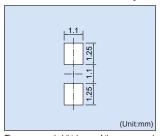
#### **■**Dimensions (Unit:mm)



#### ■Directivity (Typ.)

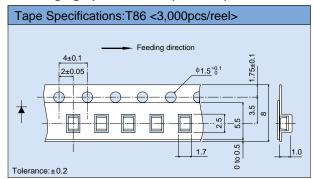


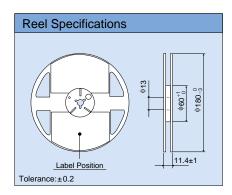
#### ■ Recommended Pad Layout



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

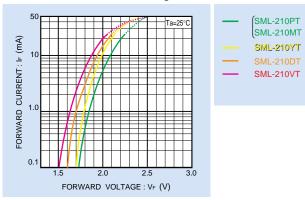
### ■ Packaging Specifications (Unit:mm)



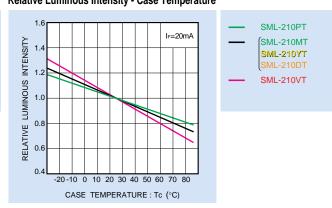


#### **■**Electrical Characteristic Curves

#### Forward Current - Forward Voltage



### **Relative Luminous Intensity - Case Temperature**



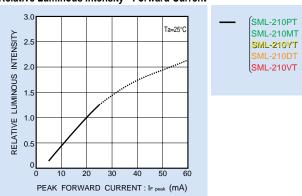
SML-210PT

SML-210MT

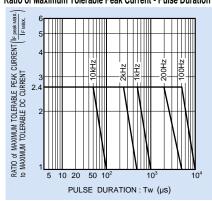
SML-210YT

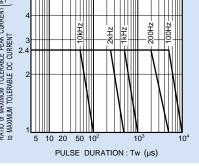
SML-210VT

#### **Relative Luminous Intensity - Forward Current**

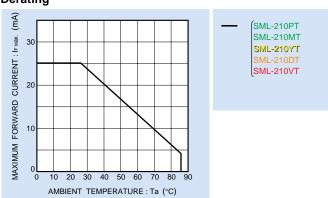


#### Ratio of Maximum Tolerable Peak Current - Pulse Duration





#### Derating

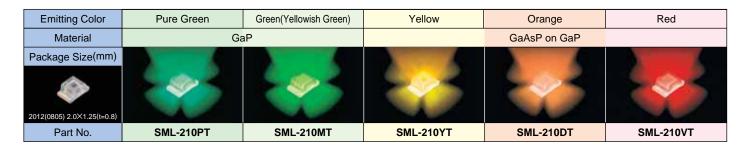


Rev.D Rev.D

SML-210MT

# 0805<2.0×1.25 t=0.8mm> **Standard Type**

## SML-210 Series



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

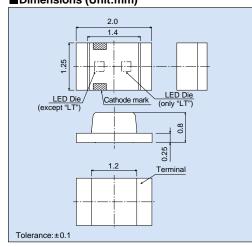
Part No.	Emitting color	Power dissipation PD (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr ( C)	Storage temperature T <sub>stg</sub> ( C)
SML-210PT	Pure Green						
SML-210MT	Green (Yellowish Green)						
SML-210YT	Yellow	70	25	60	4	-30 to +85	-40 to +85
SML-210DT	Orange						
SML-210VT	Red						

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

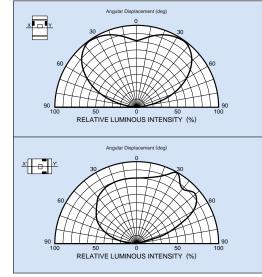
#### **■**Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current I <sub>R</sub>		Light wavelength  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-210PT		2.2				555			1.4	4	
SML-210MT	Transparent Colorless					570			3.6	16	
SML-210YT		2.1	20	100	4	585	40	20	2.2	6.3	20
SML-210DT		2.0				610			2.2	0.3	
SML-210VT		2.0				650			1.4	4	

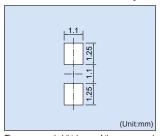
#### **■**Dimensions (Unit:mm)



#### ■Directivity (Typ.)

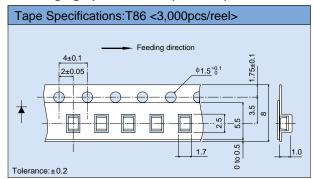


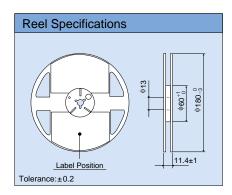
#### ■ Recommended Pad Layout



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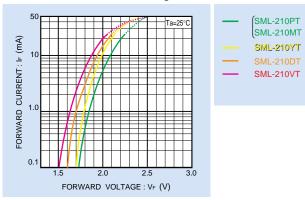
### ■ Packaging Specifications (Unit:mm)



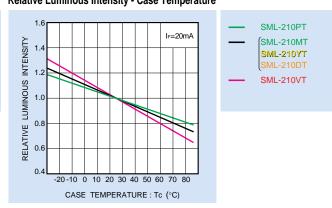


#### **■**Electrical Characteristic Curves

#### Forward Current - Forward Voltage



### **Relative Luminous Intensity - Case Temperature**



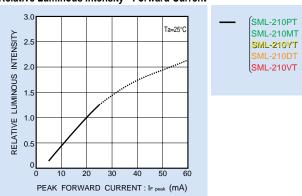
SML-210PT

SML-210MT

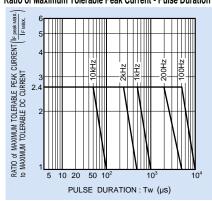
SML-210YT

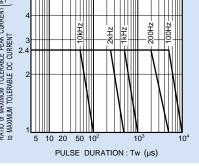
SML-210VT

#### **Relative Luminous Intensity - Forward Current**

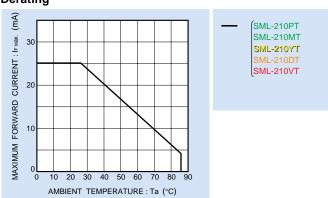


#### Ratio of Maximum Tolerable Peak Current - Pulse Duration





#### Derating



Rev.D Rev.D

SML-210MT

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Appendix1-Rev2.0

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BD9009HFP-EVK-001 BD9285F-GE2 KTR10EZPF2203 SML-810TBT86 RB168L-60TE25 MCR100JZHF1301 MCR100JZHJ4R3

MCR100JZHJ513 MCR100JZHJ683 MCR10EZHFSR062 BD9B300MUV-EVK-001 MNR12ERAPJ100 RF1501TF3S MNR34J5ABJ221

BD9060HFP-EVK-001 BD9611MUV-EVK-001 BD9778HFP-TR BD9C601EFJ-EVK-001 BD9D321EFJ-EVK-101 BA7603F-E2

BD95820N-LB BD9A100MUV-EVK-001 BD9C401EFJ-EVK-001 BD9C501EFJ-EVK-001 BU90005GWZ-E2-EVK-101 846-1001-KIT

LA-401XD SLA560WBD2PT2 BH1790GLC-EVK-001 BD9B301MUV-EVK-101 BA7071F-E2 SK-AD01-D62Q1367TB BM2P129TF-EVK-001