

SML-81 Series

3412(1305)
3.4 × 1.25mm (t=1.1mm)

Features

- Reverse-mount type

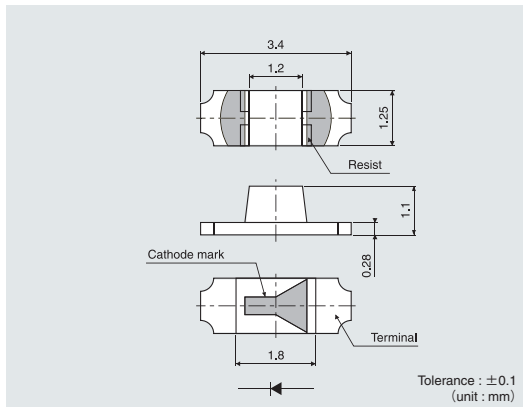
Color Type U D W M B

Specifications

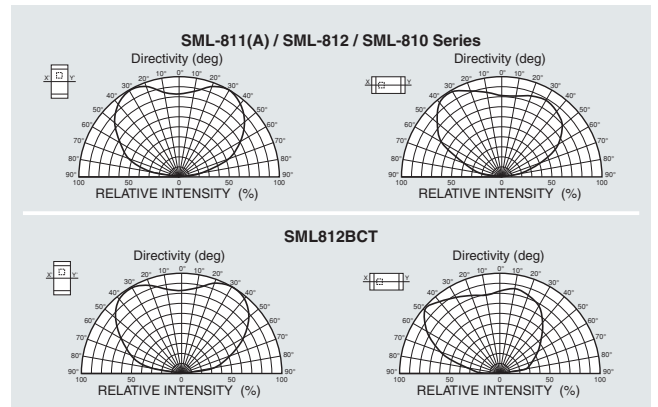
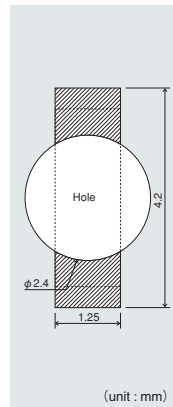
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd (mW)	Forward Current IF (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λ D			Luminous Intensity Iv		
								Typ. (V)	IF (mA)	Max. (μA)	VR (V)	Min.*3 (nm)	Typ.*3 (nm)	Max.*3 (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
■ SML-811UT(A)	AlGaInP on GaAs	Red	62	25	100 ±2	5	-40 to +85	-40 to +100	1.95	10	5	615	620	625	10	11.2	22.4	10
■ SML-811DT(A)		Orange										602	605	608				
■ SML-811WT(A)		Yellow										587	590	593				
■ SML-812MT	GaP	Yellowish Green	65	20	60 ±1	4	-30 to +85	-40 to +85	2.1	20	4	569	572	575	20	5.6	16	20
■ SML-810MT												567	570	573				
■ SML812BCT	InGaN on SiC	Blue	80	20	100 ±2	5			3.3		5	464	470	476		22	56	

* 1: Duty1/5, 200Hz / * 2: Duty1/10, 1kHz / * 3: Reference

Dimensions

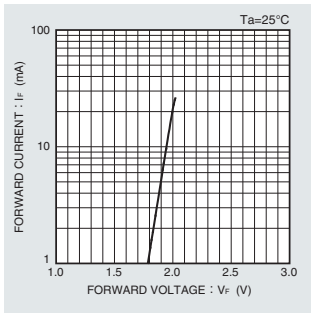


Recommended Solder Pattern Viewing Angle

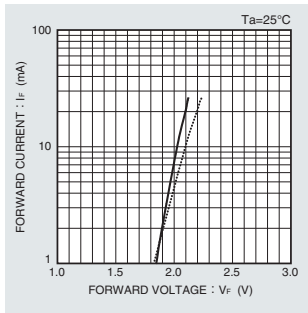


Electrical Characteristics Curves

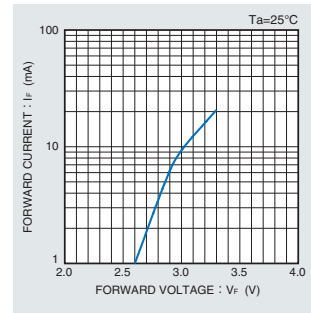
Forward Current-Forward Voltage



■ SML-811UT(A)
 ■ SML-811DT(A)
 ■ SML-811WT(A)

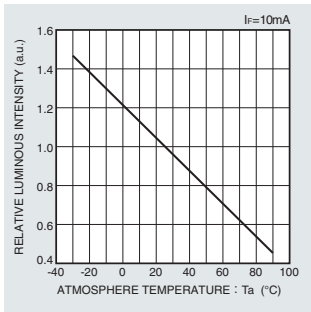


■ SML-812MT
 ■ SML-810MT

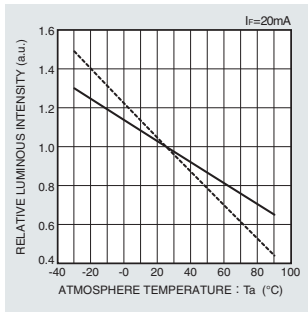


■ SML812BCT

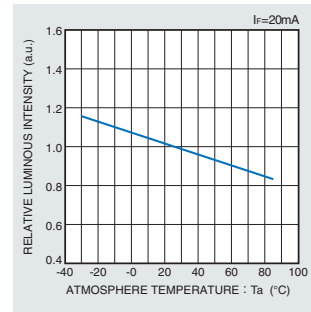
Luminous Intensity-Atmosphere Temperature



■ SML-811UT(A)
 ■ SML-811DT(A)
 ■ SML-811WT(A)

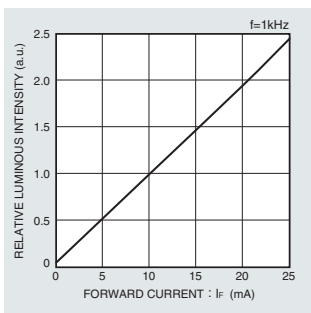


■ SML-812MT
 ■ SML-810MT

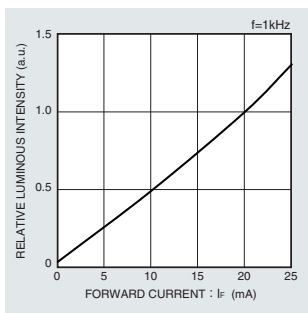


■ SML812BCT

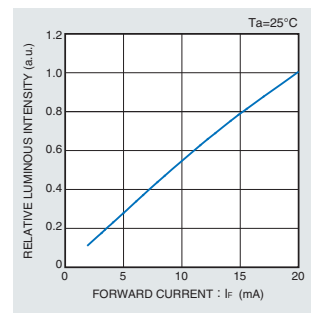
Luminous Intensity-Forward Current



■ SML-811UT(A)
 ■ SML-811DT(A)
 ■ SML-811WT(A)

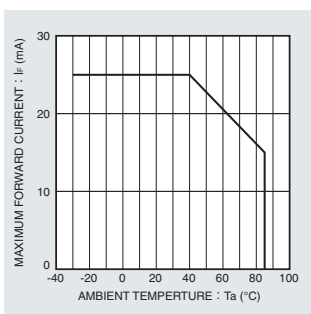


■ SML-812MT
 ■ SML-810MT

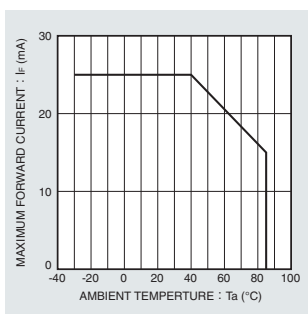


■ SML812BCT

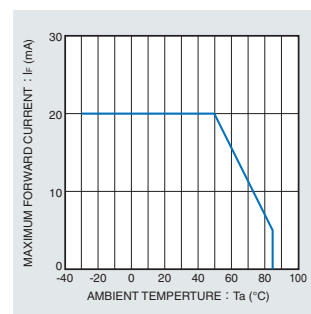
Derating



■ SML-811UT(A)
 ■ SML-811DT(A)
 ■ SML-811WT(A)



■ SML-812MT
 ■ SML-810MT



■ SML812BCT

Notes

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