

SML-21 Series

2012(0805)
2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

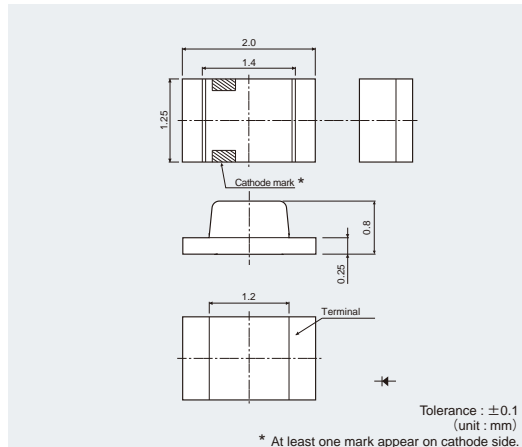


Specifications

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 Ifp (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F		Reverse Current I _R		Dominant Wavelength λ _D			Luminous Intensity I _v			
							Typ. (V)	If (mA)	Max. (μA)	V _R (V)	Min.*3 (nm)	Typ. (nm)	Max.*3 (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)		
SML-212VT	AlGaInP on GaAs	Red	75	30	60*1	4	-30 to +85	-40 to +85	2.05	20	100	4	625	630	635	20	22	63	
SML-210VT	GaAsP on GaP		70	25															1.4
SML-212U2T(A)			75	30	100*2	5	-40 to +100	-40 to +100	2	10	5	611	615	619	71	140			
SML-211UT	AlGaInP on GaAs	Orange	44	20	60*1	4	-30 to +85	-40 to +85	1.8	2	100	4	615	620	625	2	0.9	2.5	2
SML-212DT			75	30															
SML-211DT			44	20	2	0.9	2.5	2											
SML-210DT	GaAsP on GaP	Yellow	70	25	60*1	4	-30 to +85	-40 to +85	1.8	2	100	4	602	605	608	2	2.2	6.3	20
SML-212WT(A)			75	30															
SML-211WT	AlGaInP on GaAs		44	20	2	1.4	4	2											
SML-212YT		75	30	20	22	63	20												
SML-211YT		44	20	2	1.4	4	2												
SML-210YT	GaAsP on GaP	Yellowish Green	70	25	60*1	4	-30 to +85	-40 to +85	1.8	2	100	4	584	587	590	2	2.2	6.3	20
SML-210MT																			
SML-210PT	GaP		70	25	2.2	20	567	570	573	20	3.6	16	20						
		Green																	

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

Dimensions



Recommended Solder Pattern Viewing Angle



Electrical Characteristics Curves

Forward Current-Forward Voltage



Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



SML-21 Series

Rank Reference of Brightness

Red (V, U)

(Ta=25°C, If=20mA)

Package size(mm)	Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
			1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600
Mini-mold Chip LEDs	20125	0.8	SML-211UT ^{※/※1}					SML-212VT [※]										
			SML-210VT [※]					SML-212U2T(A) [*]										

Orange (D)

(Ta=25°C, If=20mA)

Package size(mm)	Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
			1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600
Mini-mold Chip LEDs	20125	0.8	SML-211DT ^{※/※1}					SML-210DT [※]					SML-212DT					

Yellow (Y, W)

(Ta=25°C, If=20mA)

Package size(mm)	Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
			1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600
Mini-mold Chip LEDs	20125	0.8	SML-211YT ^{※/※1}					SML-212YT [※]										
			SML-211WT ^{※/※1}										SML-212WT(A) [*]					
			SML-210YT [※]															

Green (M, P)

(Ta=25°C, If=20mA)

Package size(mm)	Height(mm)	Luminous Intensity (mcd)	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
			0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1800
Mini-mold Chip LEDs	20125	0.8	SML-210PT [※]					SML-210MT [※]											

* Please note that the brightness of some products may fall between ranks (half rank).
 ※Brightness on specification sheet include tolerance of within ± 10%. ※1 If=2mA

Part No. Construction



- * Concerning the Brightness rank
- Please refer to the rank chart above for luminous intensity classification.
- Part name is individual for each rank.
- When shipped as sample, the part name will be a representative part name.
- General products are free of ranks. Please contact sales if rank appointment is needed.

Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags.
 Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request.
 Please contact the nearest sales office or distributor if necessary.

Notes

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