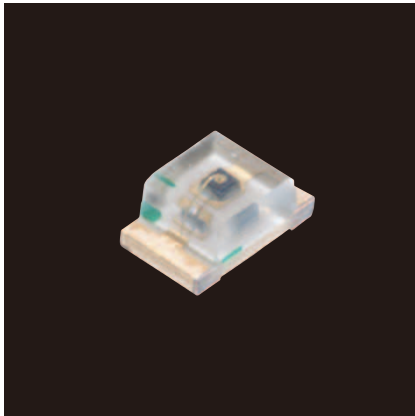




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

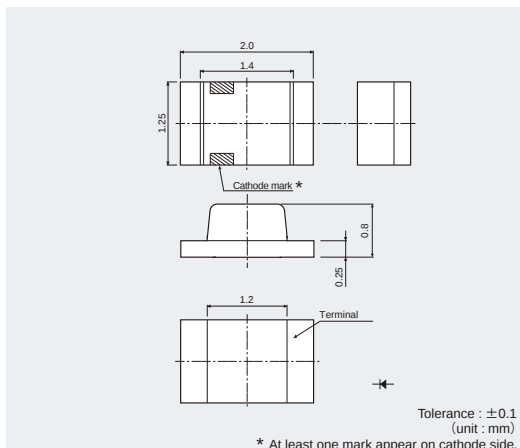
Color Type	V	U	D
Y	W	M	P

Specifications

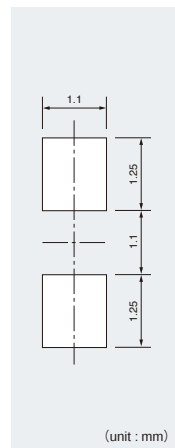
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)												
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IFF(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ.(V)	IF(mA)	Reverse Current IR Max.(μA)	VR(V)	Dominant Wavelength λ D Min.*3 Typ.(nm) Max.*3 (nm)			Luminous Intensity Iv Min.(mcd) Typ.(mcd) If(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	20		
■ SML-210VT	GaAsP on GaP		70	25					1.4								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		44	20					1.8	2			615	620	625	2	0.9	2.5	2		
■ SML-212DT		Orange	75	30	60*1	4	-30 to +85	-40 to +85	2.05	20	100	4				20	25	63	20		
■ SML-211DT			44	20					1.8								2	2	0.9	2.5	2
■ SML-210DT	GaAsP on GaP		70	25					2		20							20	2.2	6.3	20
■ SML-212WT(A)			75	30	100*2	5	-40 to +100	-40 to +100			10	5	587	590	593	20	112	224	20		
■ SML-211WT	AlGaInP on GaAs	Yellow	44	20					1.8	2							2	1.4		4	2
■ SML-212YT			75	30					2.05	20								20		22	63
■ SML-211YT			44	20	60*1	4	-30 to +85	-40 to +85	1.8	2	100	4	584	587	590	2	1.4	4	2		
■ SML-210YT	GaAsP on GaP									2.1											
■ SML-210MT	GaP	Yellowish Green	70	25						20			567	570	573	20	3.6	16	20		
■ SML-210PT		Green							2.2					557	560	563		1.4	4		

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

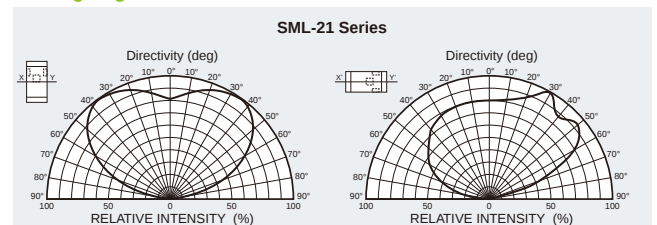
Dimensions



Recommended Solder Pattern

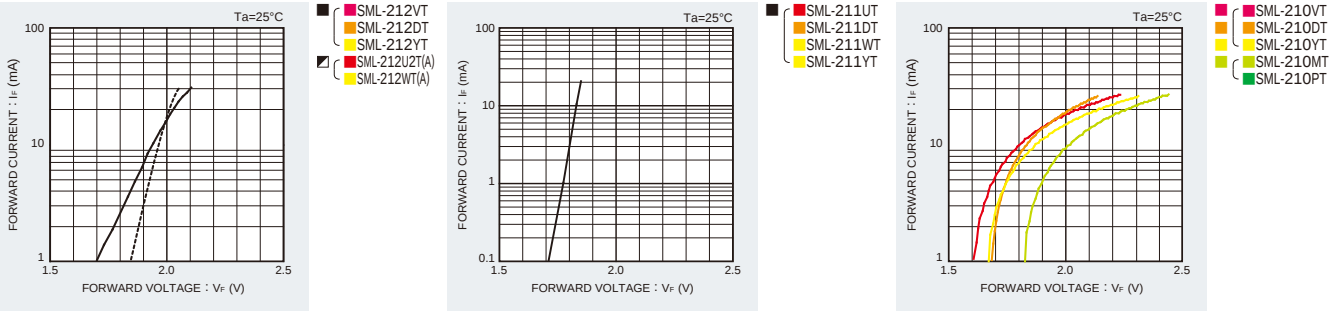


Viewing Angle

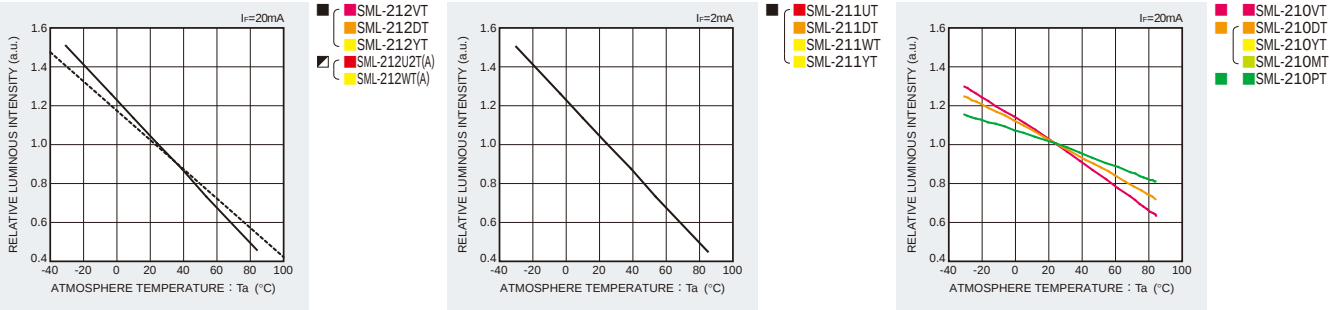


Electrical Characteristics Curves

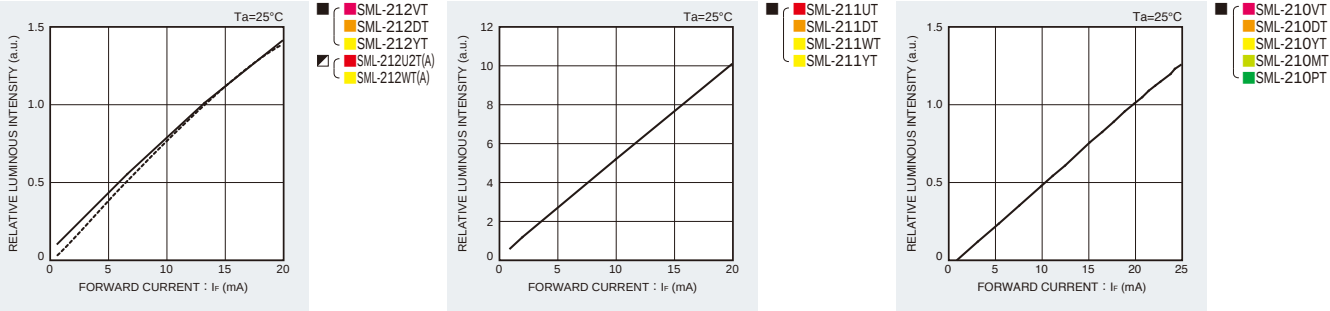
Forward Current-Forward Voltage



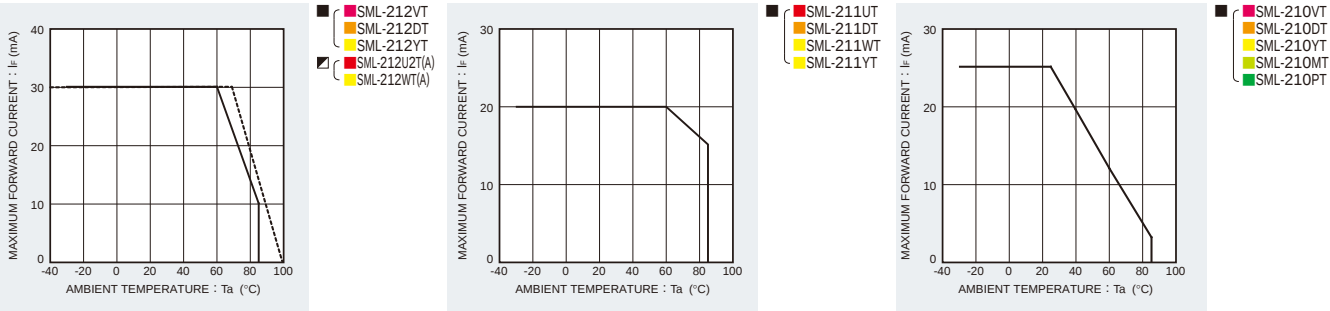
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



SML-21 Series

Rank Reference of Brightness

Red (V, U)

(Ta=25°C, If=20mA)																		
	Package size(mm)	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)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
			Height(mm)	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
Mini-mold Chip LEDs	20125	0.8	SML-211DT ^{※1}							SML-212DT								
			SML-210DT [※]															

Yellow (Y, W)

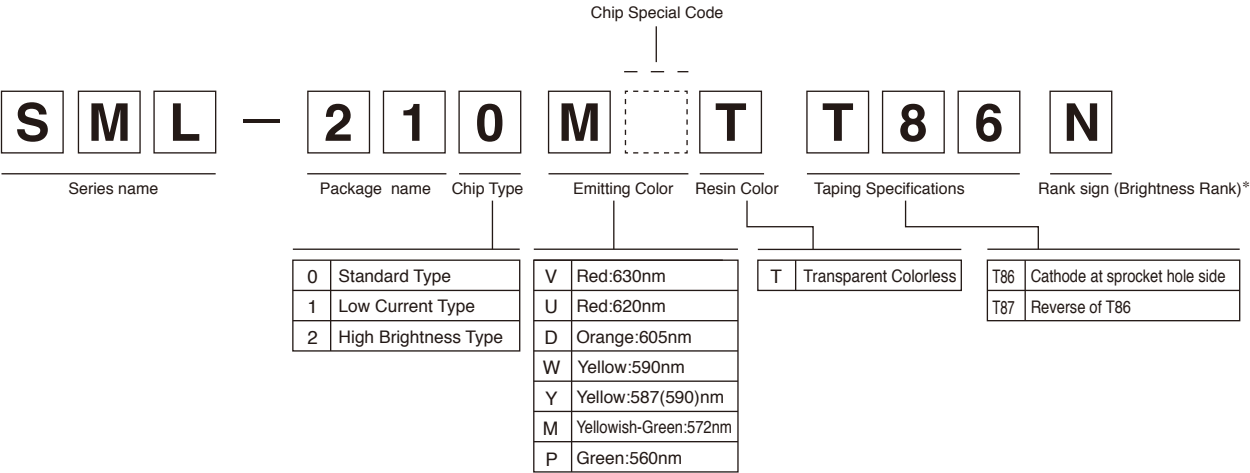
		(Ta=25°C, If=20mA)																	
	Package size(mm)	Height(mm)	Luminous intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
				1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600
Mini-mold 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 1600
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.

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Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331