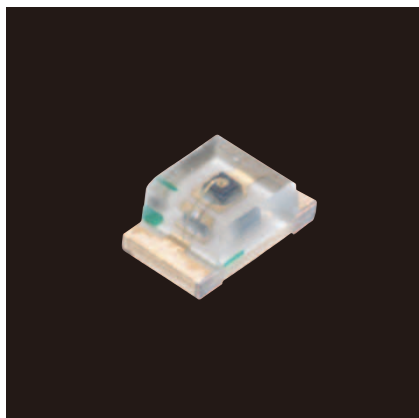




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

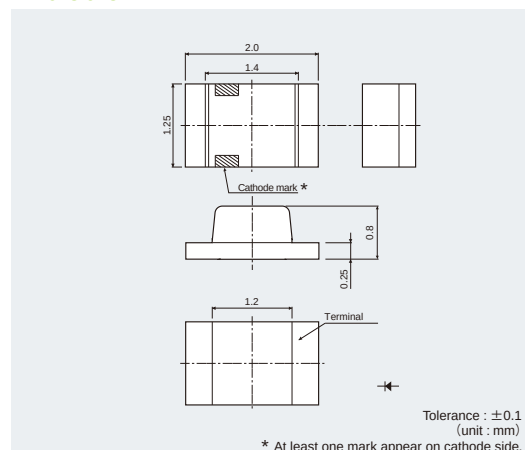
Color Type	V	U	D
Y	W	M	P

Specifications

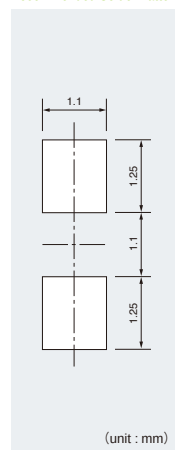
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _f (V)	Reverse Current I _r (μA)	Dominant Wavelength λ _D (nm)	Luminous Intensity I _v (mcd)	Min.*3	Typ.	Max.*3	Min.*3	Typ.	Max.*3
■ SML-212VT	AlGaInP on GaAs	Red	75	30	60*1	4	-30 to +85	-40 to +85	2.05	100	625	22	1.4	4	20	63	4	20
■ SML-210VT	GaAsP on GaP		70	25					2									
■ SML-212U2T(A)			75	30					2									
■ SML-211UT	AlGaInP on GaAs	Orange	44	20	60*1	4	-30 to +85	-40 to +85	1.8	100	615	2	0.9	2.5	2	2.5	2	2
■ SML-212DT			75	30					2.05									
■ SML-211DT			44	20					1.8									
■ SML-210DT	GaAsP on GaP	Yellow	70	25	60*1	4	-30 to +85	-40 to +85	2	100	587	2.2	6.3	20	112	224	20	20
■ SML-212WT(A)			75	30					2									
■ SML-211WT	AlGaInP on GaAs		44	20					1.8									
■ SML-212YT		Yellowish Green	75	30	60*1	4	-30 to +85	-40 to +85	2.05	100	584	2	1.4	4	2	6.3	16	20
■ SML-211YT			44	20					1.8									
■ SML-210YT	GaAsP on GaP		70	25					2.1									
■ SML-210MT		Green	70	25	60*1	4	-30 to +85	-40 to +85	2.2	100	567	3.6	1.4	4	20	563	1.4	4
■ SML-210PT	GaP								2.2									

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

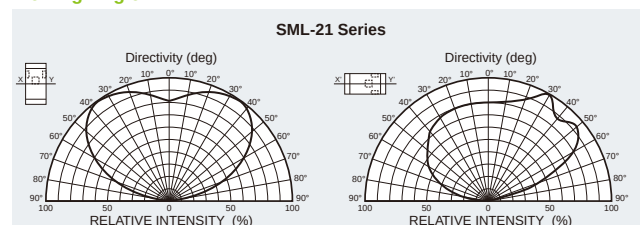
Dimensions



Recommended Solder Pattern

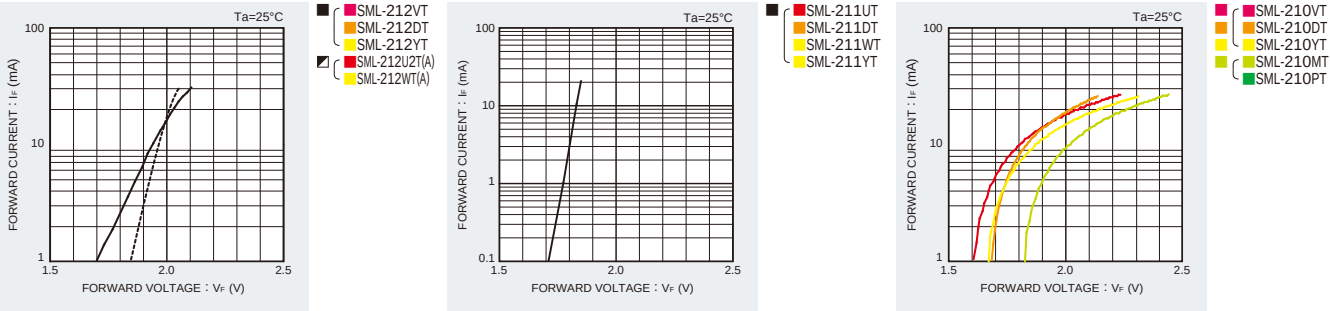


Viewing Angle

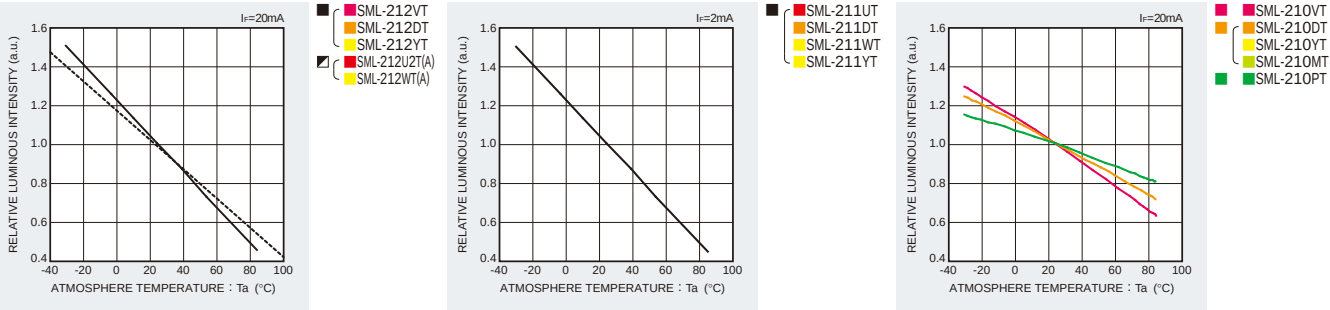


Electrical Characteristics Curves

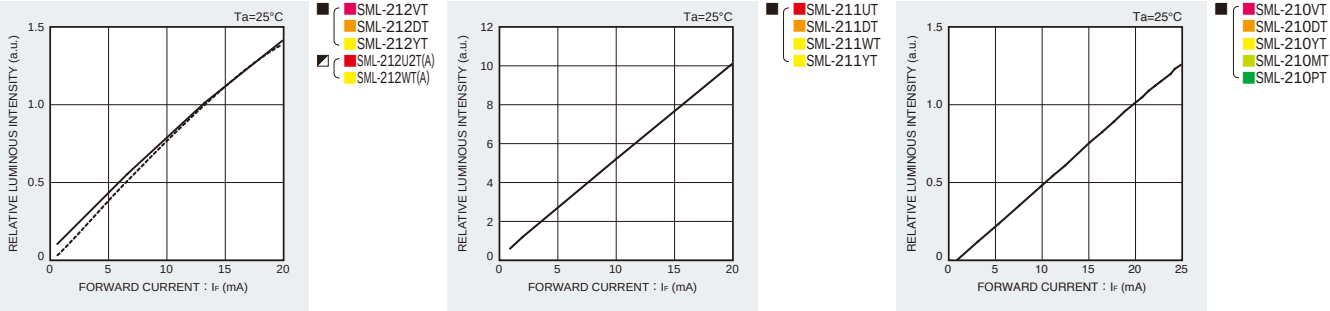
Forward Current-Forward Voltage



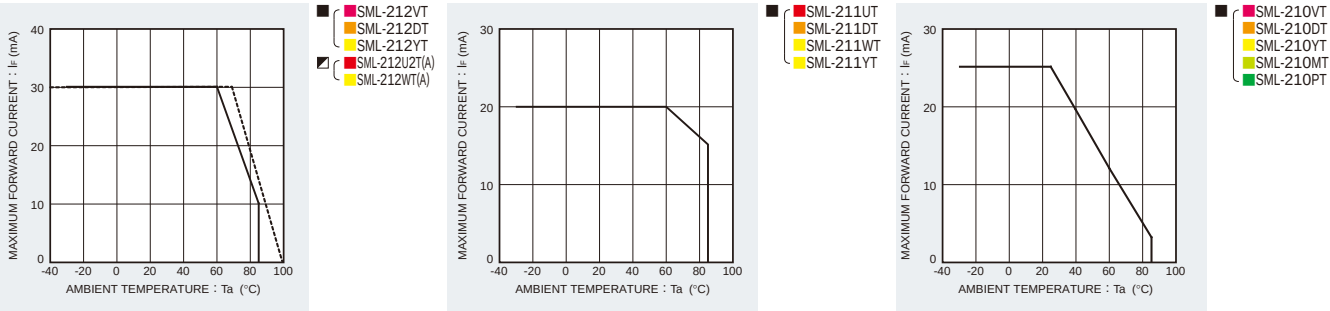
Luminous Intensity-Atmosphere Temperature



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)

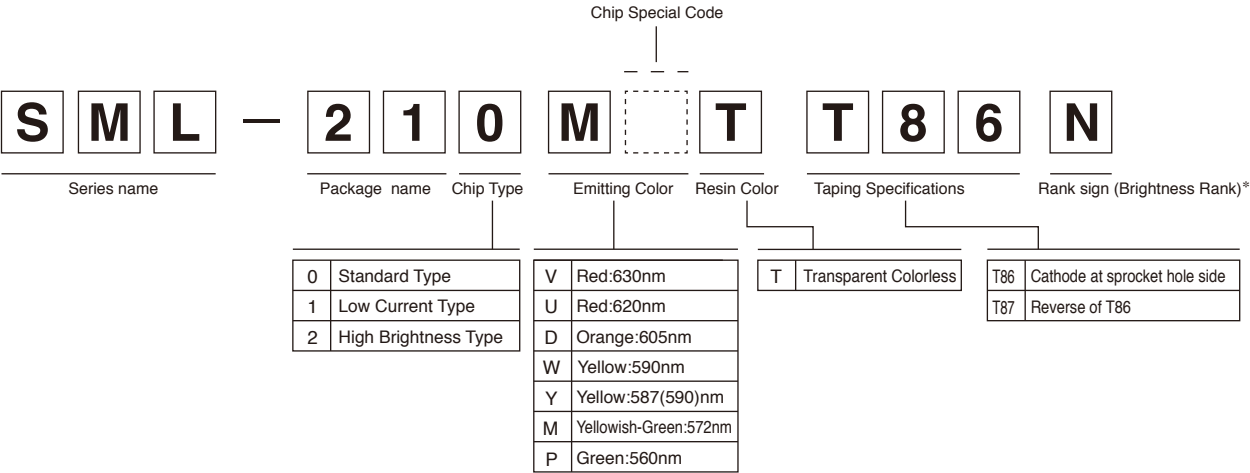
		(Ta=25°C, If=20mA)																	
	Package size(mm)	Height(mm)	Luminous intensity (mcd)	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
				1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600
Mini-mold Chip LEDs	20125	0.8		SML-211YT ^{※1}							SML-212YT [※]								
				SML-211WT ^{※1}										SML-212WT(A) [*]					
				SML-210YT [※]															

Green (M, P)

Green (nm, I)																			(Ta=25°C, If=20mA)									
	Package size(mm)	Luminous Intensity (mcd)	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X									
	Height(mm)		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.

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