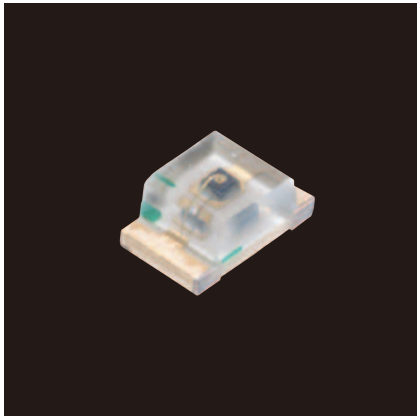




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

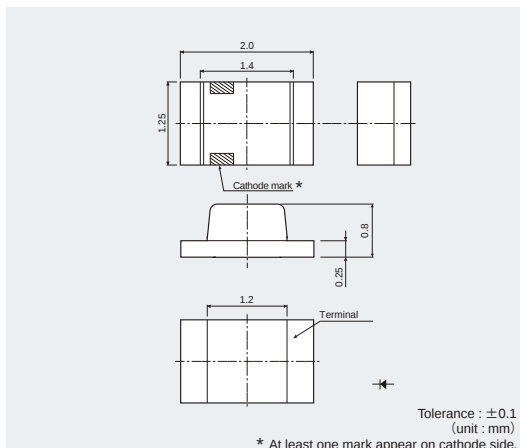
Color Type	V	U	D
Y	W	M	P

Specifications

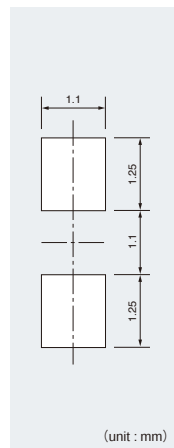
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)											
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IFF(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ.(V)	Reverse Current IR Max.(μA)	Dominant Wavelength λD Min.*3 Typ.(nm) Max.*3 (nm)			Luminous Intensity IV Min.(mcd) Typ.(mcd) I(μA)						
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					2								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	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					2.05	20							2	25	63	20
SML-211DT			44	20					1.8	2			602	605	608	2	0.9	2.5	2	
SML-210DT	GaAsP on GaP	Yellow	70	25	60*1	4	-30 to +85	-40 to +85	2	20	10	5	587	590	593	20	2.2	6.3	20	
SML-212WT(A)			75	30					100*2	5							-40 to +100	-40 to +100		2
SML-211WT	AlGaInP on GaAs		Yellowish Green	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-212YT		75		30	2.05					20	2							22	63	20
SML-211YT		44		20					1.8	2							2	1.4	4	2
SML-210YT	GaAsP on GaP	Green			60*1	4	-30 to +85	-40 to +85	2.1	20	100	4	567	570	573	20	2.2	6.3	20	
SML-210MT	GaP		70	25					2.2								3.6	16		
SML-210PT														557	560	563		1.4	4	

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

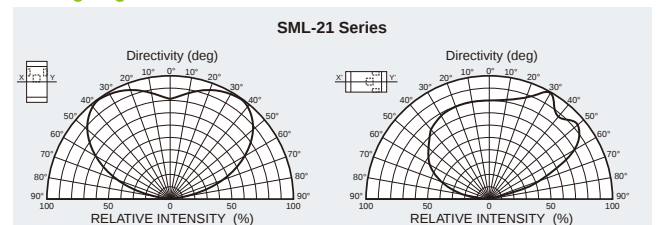
Dimensions



Recommended Solder Pattern

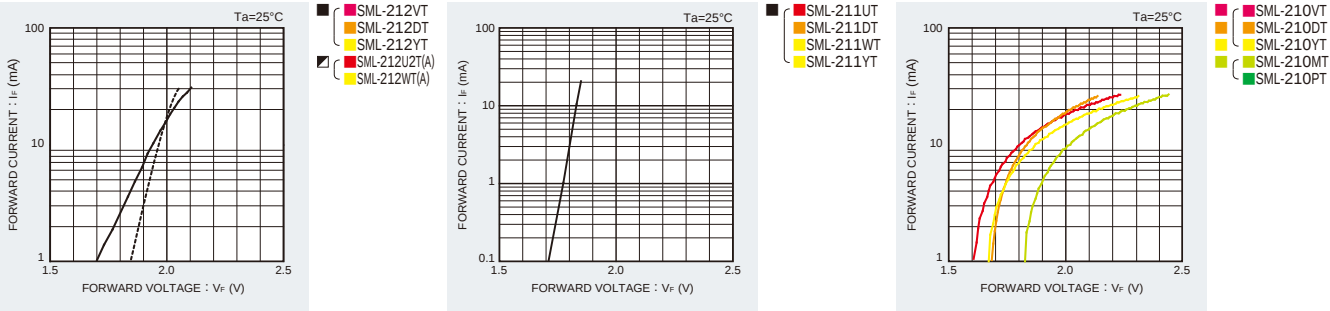


Viewing Angle

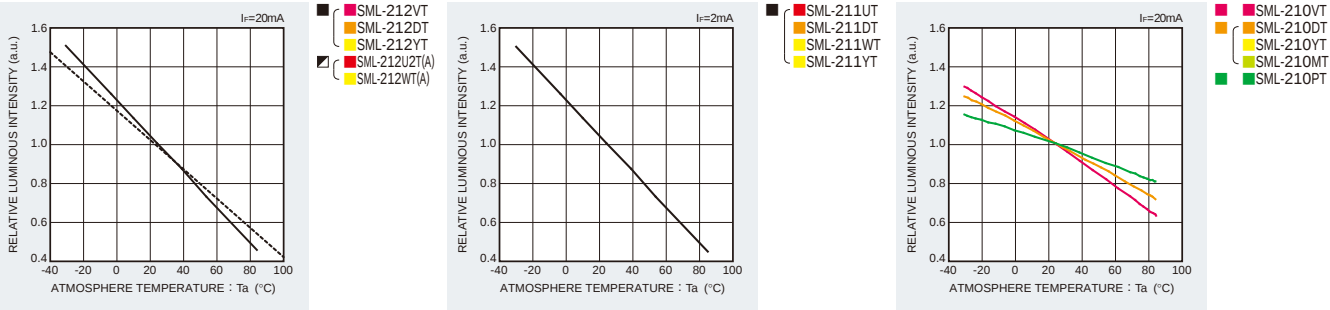


Electrical Characteristics Curves

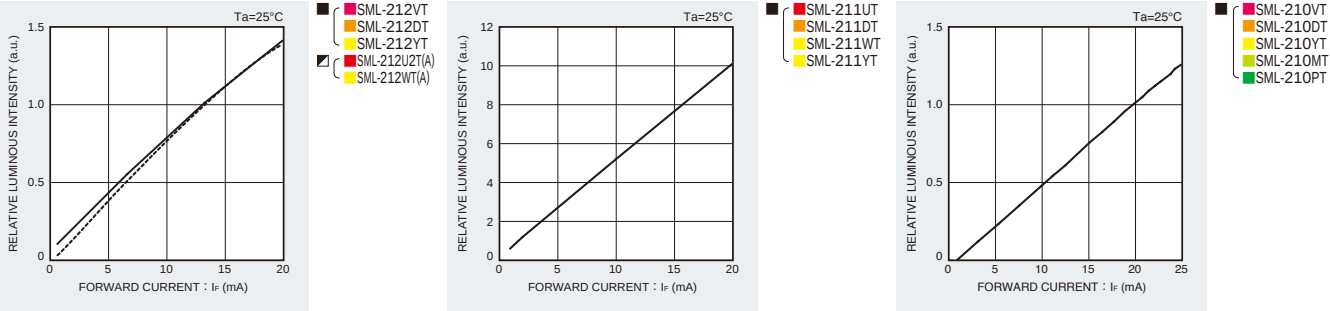
Forward Current-Forward Voltage



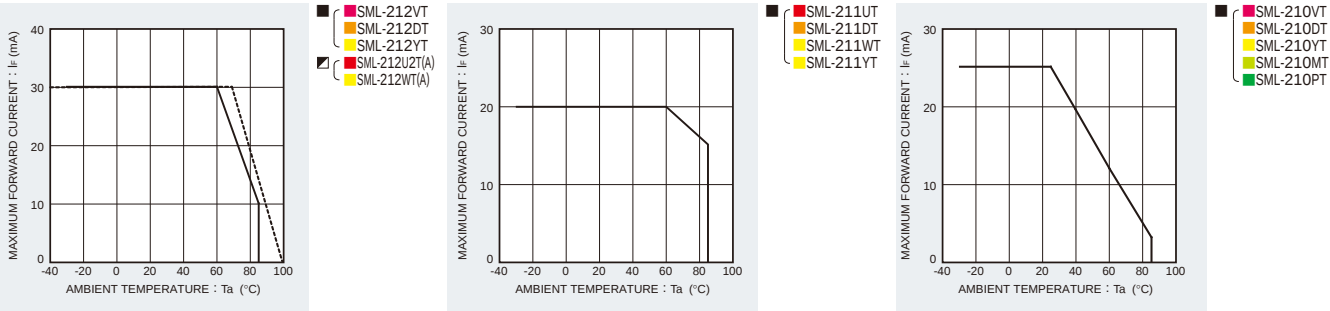
Luminous Intensity-Atmosphere Temperature



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
Mini-mold Chip LEDs	20125	0.8	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
			SML-211UT ^{※/※1}			SML-210VT [※]			SML-212VT [※]			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-212DT												
			SML-210DT [※]																			

Yellow (Y, W)

(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	1000 to 1600
Mini-mold Chip LEDs	20125	0.8	SML-211YT ^{※/※1}					SML-212YT [※]										
			SML-211WT ^{※/※1}															
			SML-210YT [※]										SML-212WT(A) *					

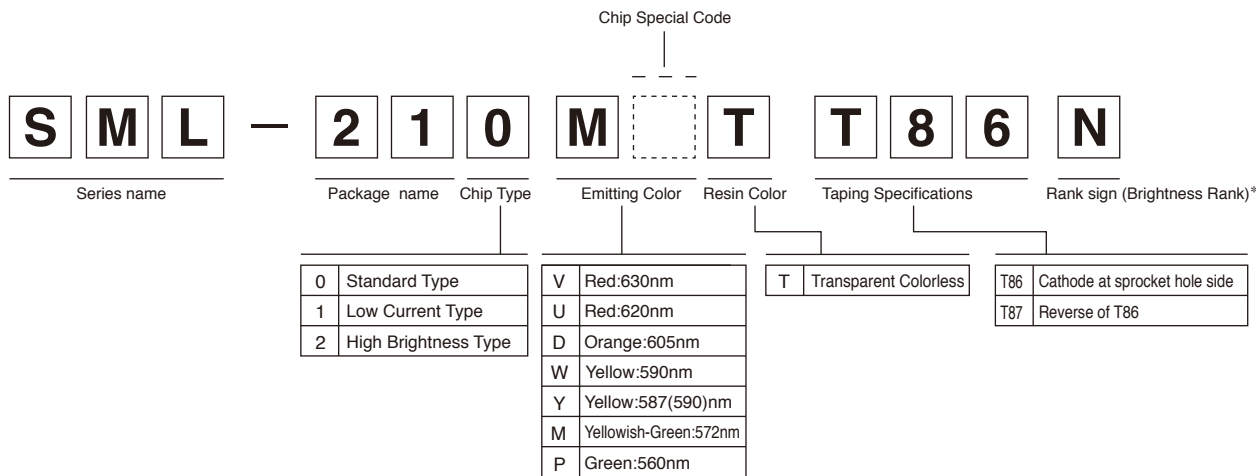
Green (M, P)

(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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