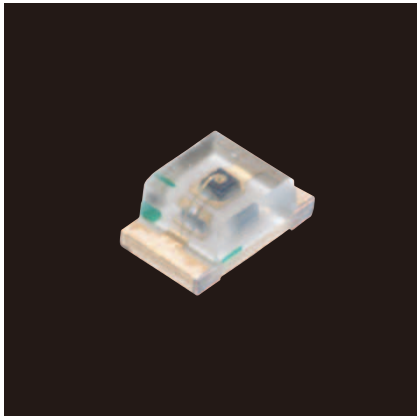




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

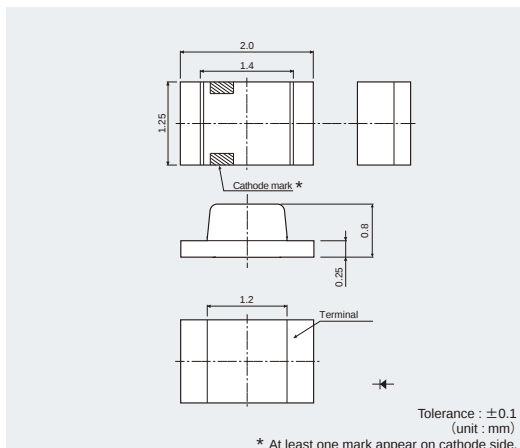
Color Type	V	U	D
Y	W	M	P

Specifications

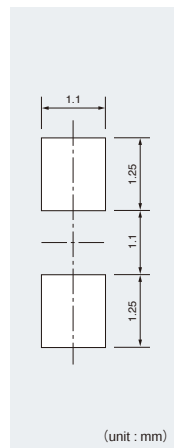
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)											
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage V _f Typ.(V)	I _f (mA)	Reverse Current I _r Max.(μA)	V _r (V)	Dominant Wavelength λ D Min.*3 Typ.(nm) Max.*3 (nm)			Luminous Intensity I _v 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	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	Orange	44	20	60* ¹	4	-30 to +85	-40 to +85	1.8	2			615	620	625	2	0.9	2.5	2	
■ SML-212DT			75	30					2.05	20							100	4	25	63
■ SML-211DT			44	20					1.8	2			602	605	608	2	0.9	2.5	2	
■ SML-210DT	GaAsP on GaP	70	25					2	20	2.2							6.3	20		
■ SML-212WT(A)		Yellow	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		44	20					1.8								2	1.4		4
■ SML-212YT			75	30					2.05	20	20	22	63	20						
■ SML-211YT		44	20	60* ¹	4	-30 to +85	-40 to +85	1.8	2	1.4					4	2				
■ SML-210YT	GaAsP on GaP											2.1	100	4				20	2.2	6.3
■ SML-210MT	GaP	Yellowish Green	70	25					20	567	570	573							3.6	16
■ SML-210PT		Green							2.2		557	560	563	1.4	4					

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

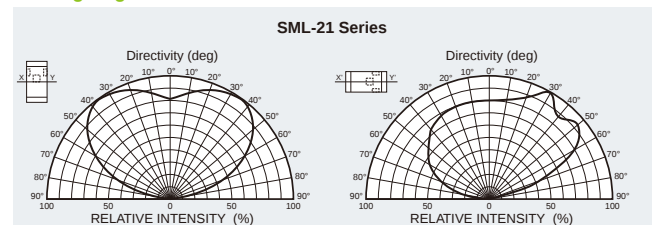
Dimensions



Recommended Solder Pattern

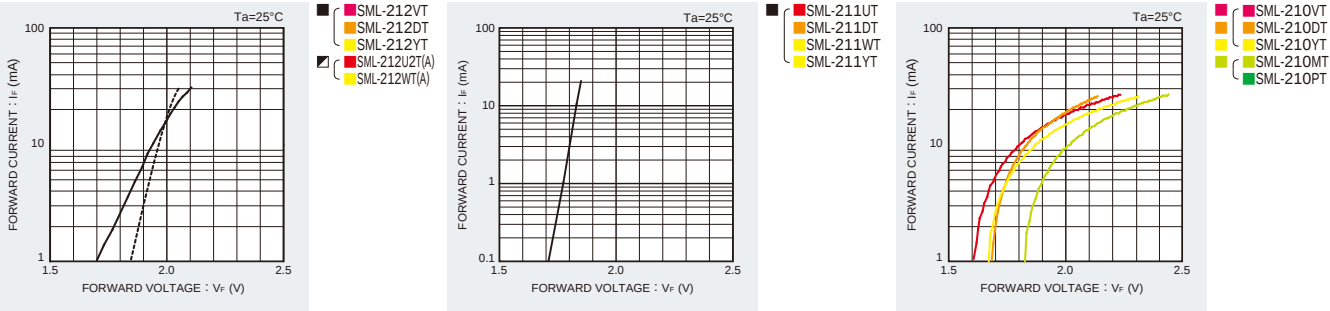


Viewing Angle

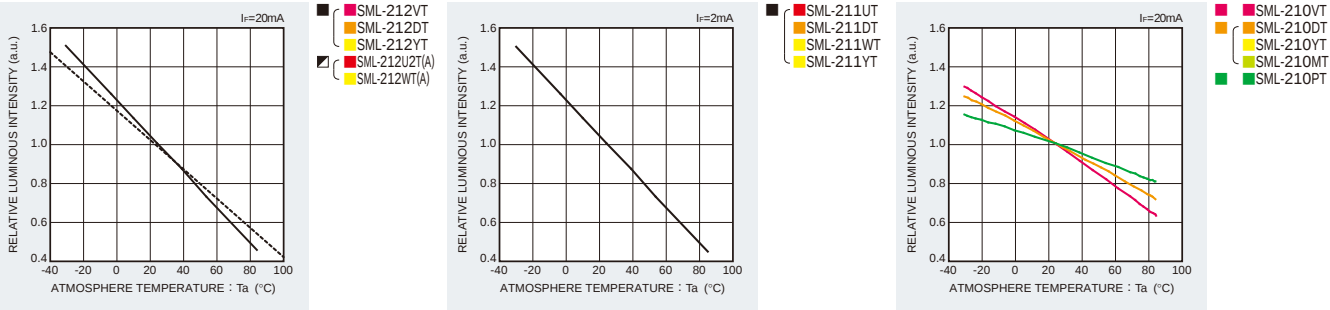


Electrical Characteristics Curves

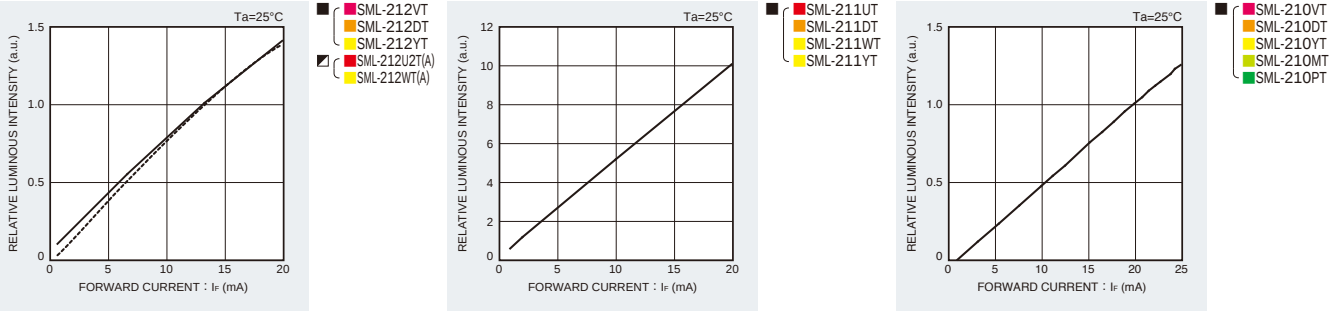
Forward Current-Forward Voltage



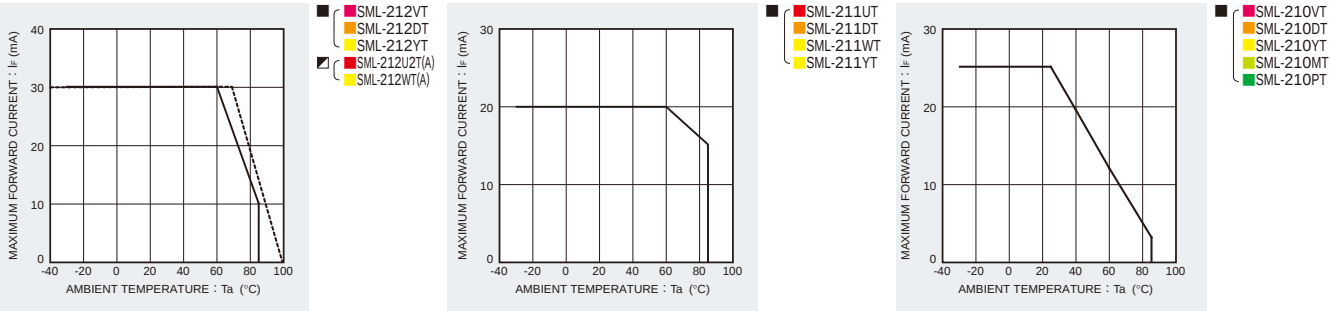
Luminous Intensity-Atmosphere Temperature



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
		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-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	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-212WT(A)※					
			SML-210YT※															

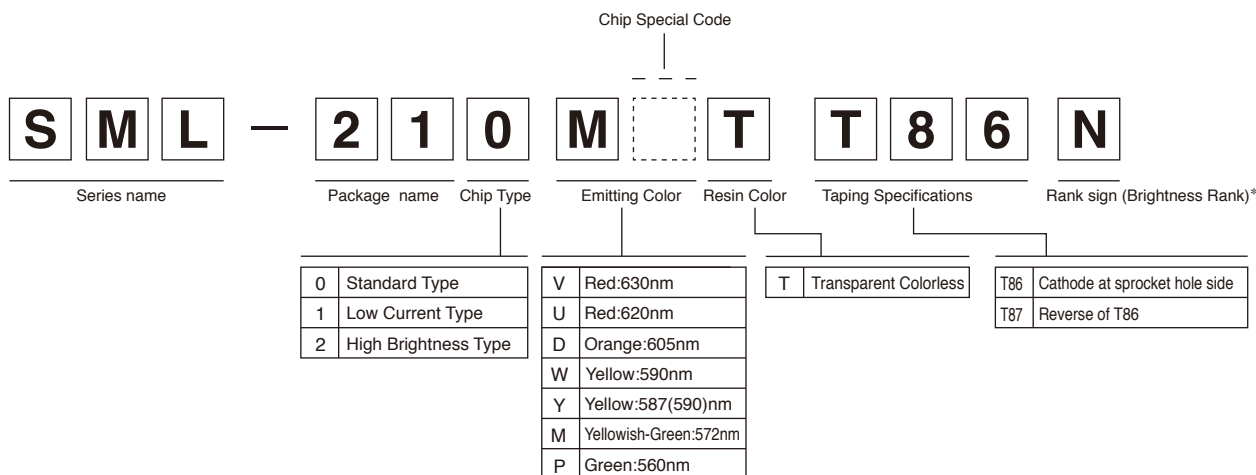
■ Green (M, P)

(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 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



Notes

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