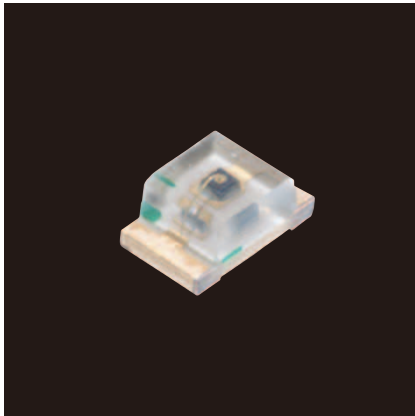




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

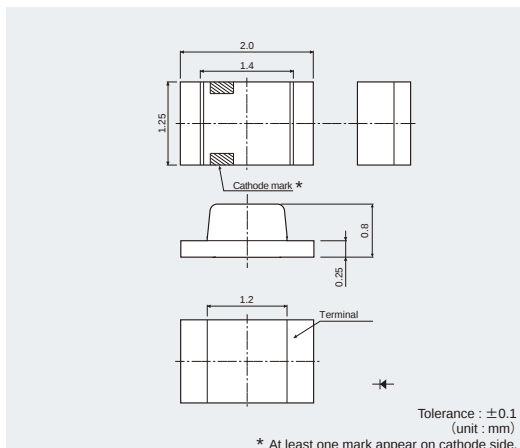
Color Type	V	U	D
Y	W	M	P

Specifications

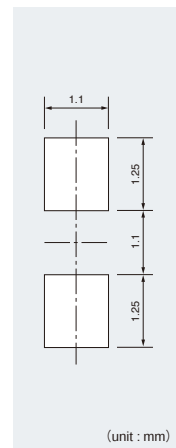
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)											
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward 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					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						20	2.2	6.3	20	
■ SML-212WT(A)			75	30					100* ²								5	-40 to +100		-40 to +100
■ SML-211WT	AlGaInP on GaAs		44	20					1.8		2					2	1.4	4		2
■ SML-212YT		Yellowish Green	75	30	60* ¹	4	-30 to +85	-40 to +85	2.05	20						20	22	63	20	
■ SML-211YT			44	20					1.8	2							100	4	584	587
■ SML-210YT	GaAsP on GaP								2.1		100	4						2.2	6.3	
■ SML-210MT	GaP	70	25					2.2	20	567								570	573	20
■ SML-210PT		Green											557	560	563		1.4	4		

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

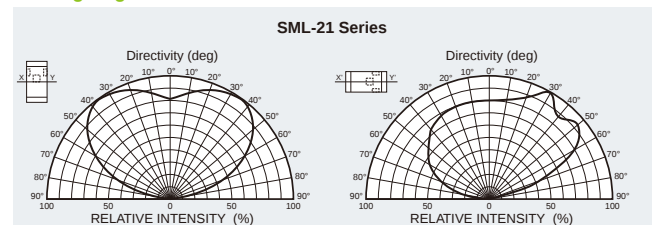
Dimensions



Recommended Solder Pattern

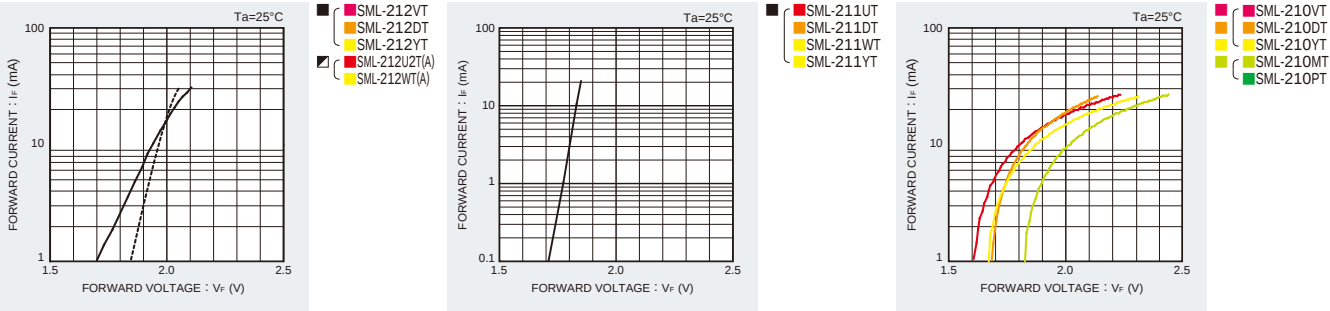


Viewing Angle

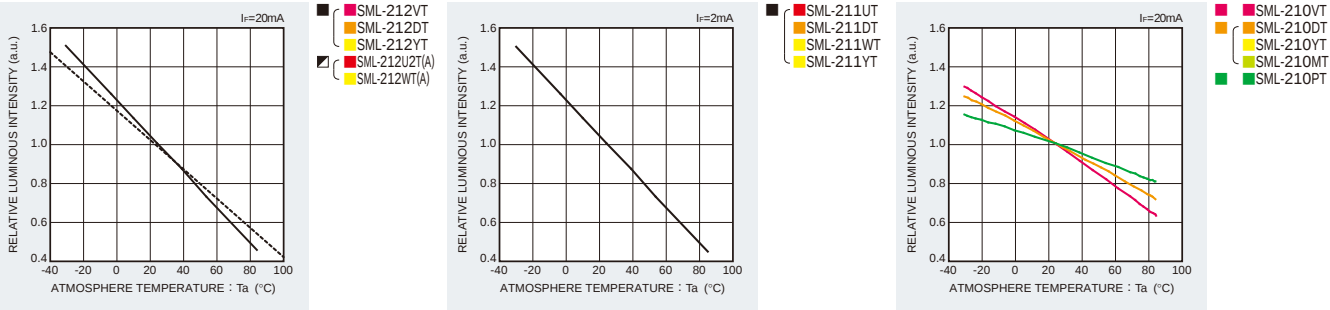


Electrical Characteristics Curves

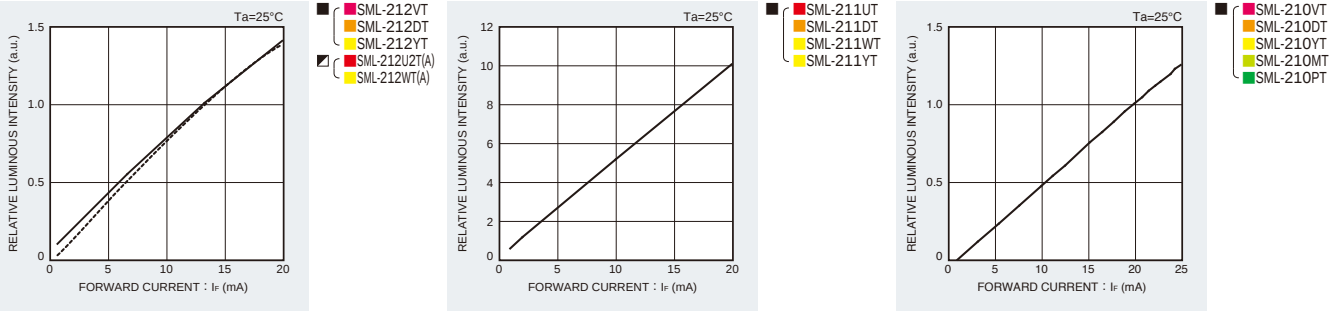
Forward Current-Forward Voltage



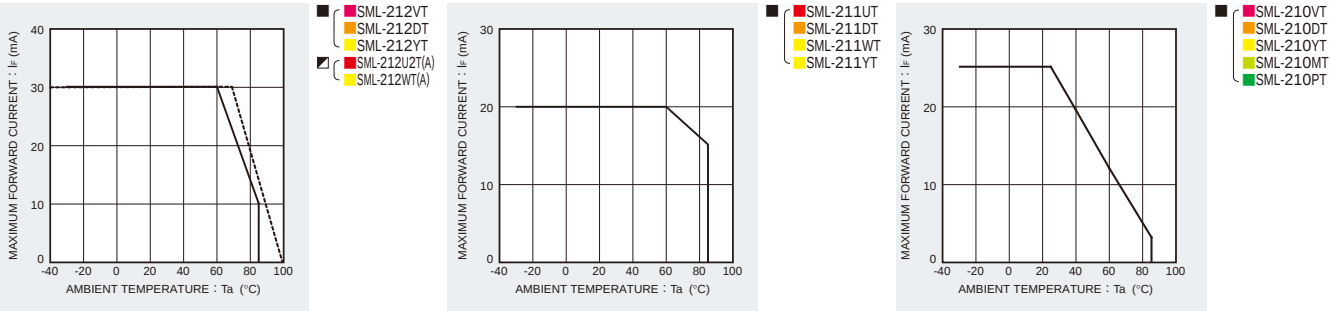
Luminous Intensity-Atmosphere Temperature



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)

(Ta=25℃, 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 [※]													

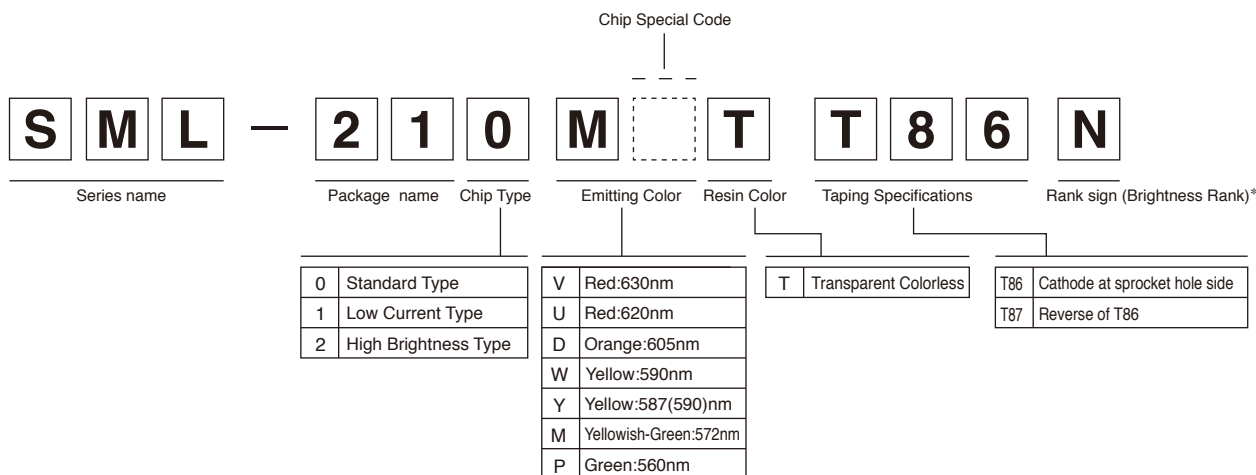
■ Green (M, P)

(Ta=25°C, If=20mA)

			(Ta=25℃, 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



Notes

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