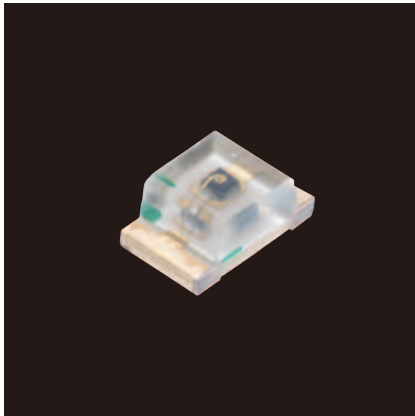




SML-21 Series

2012(0805)
 2.0 × 1.25mm (t=0.8mm)

Features

- Abundant color variations with diverse luminous intensity types

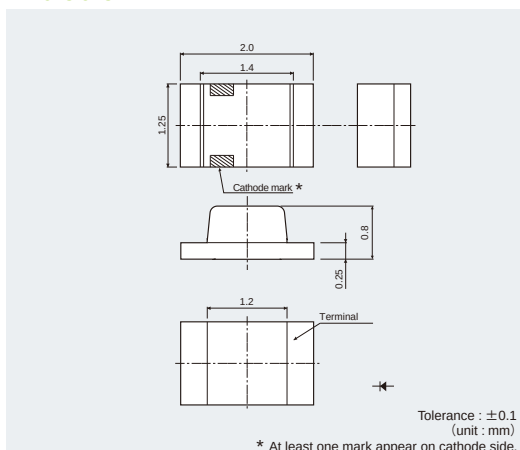
Color Type	V	U	D
Y	W	M	P

Specifications

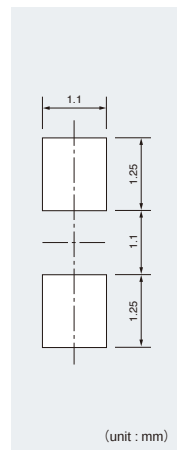
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)														
			Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (℃)	Storage Temperature Tstg (℃)	Forward Voltage Vf		Reverse Current Ir		Dominant Wavelength λD			Luminous Intensity Iv							
									Typ. (V)	If (mA)	Max. (μA)	Vr (V)	Min.*3 (nm)	Typ. (nm)	Max.*3 (nm)	If (mA)	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					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			602	605	608	20	25	63	20				
■ 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	100	4	587	590	593	20	2.2	6.3	20				
■ SML-212WT(A)			75	30					100*2	5						-40 to +100	-40 to +100	2		10	5	112	224
■ 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	100	4	584	587	590	20	22	63	20				
■ SML-211YT			44	20					1.8	2						2	1.4	4	2				
■ SML-210YT	GaAsP on GaP															2.1				2.2	6.3		
■ SML-210MT	GaP	Yellowish Green	70	25	60*1	4	-30 to +85	-40 to +85	2.2	20			567	570	573	20	3.6	16	20				
■ SML-210PT		Green																			1.4	4	

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

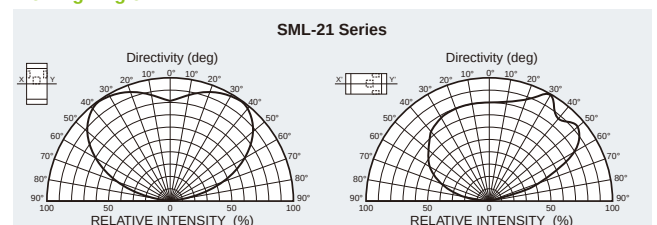
Dimensions



Recommended Solder Pattern

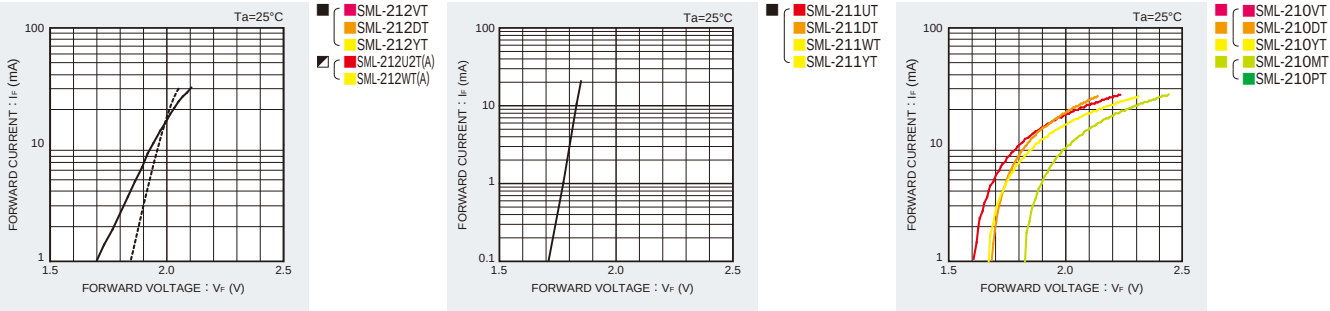


Viewing Angle

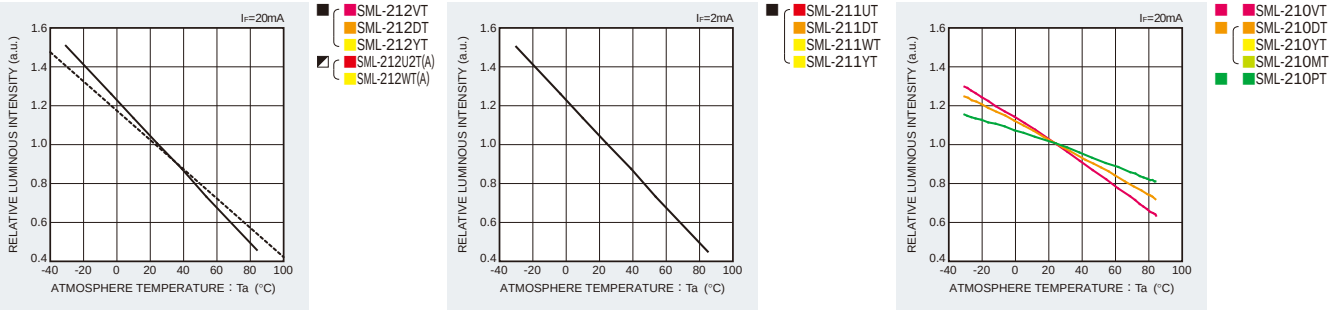


Electrical Characteristics Curves

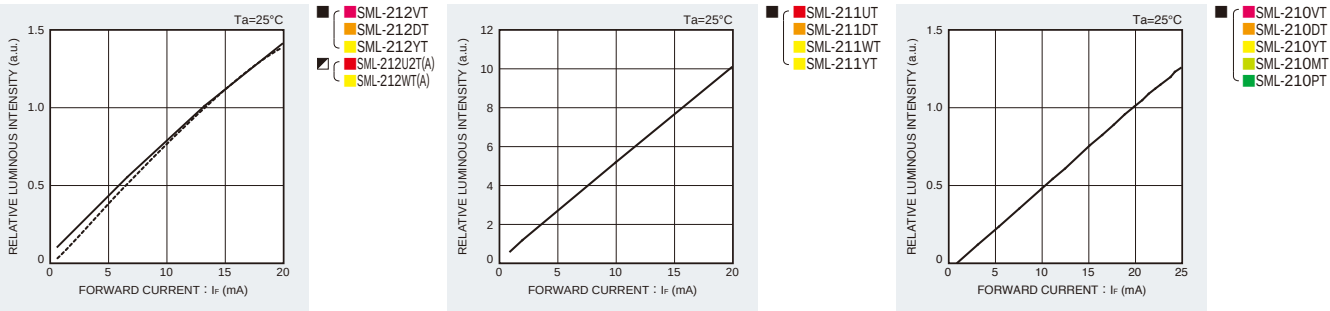
Forward Current-Forward Voltage



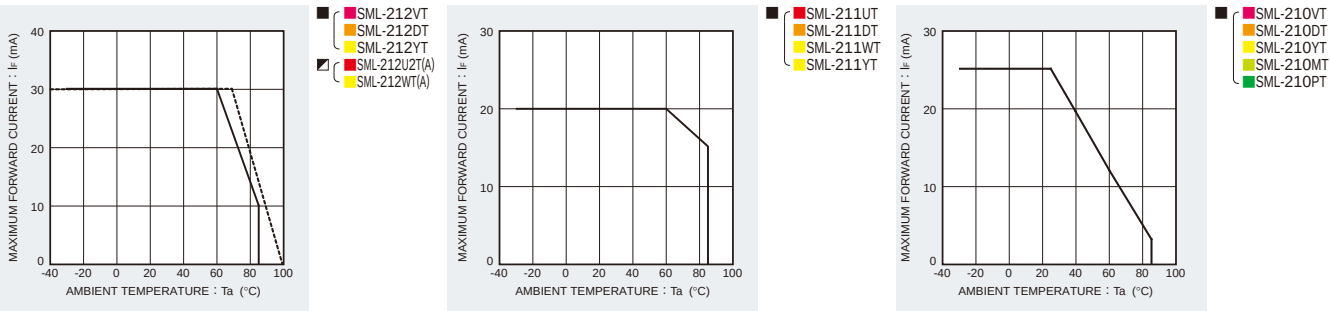
Luminous Intensity-Atmosphere Temperature



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)	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-210DT [※]					SML-212DT						

■ 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 [※]															

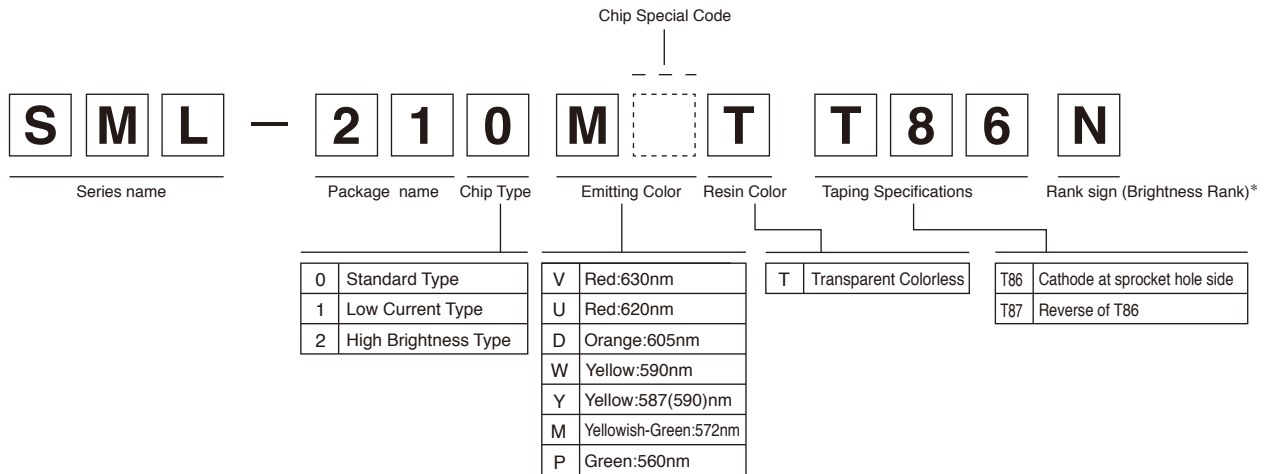
■ Green (M, P)

(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	
Mini-mold Chip LEDs	20125	0.8	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	
			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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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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