

SML-21 Series

2012(0805) 2.0×1.25 mm(t=0.8mm)

Features

· Abundant color variations with diverse luminous intensity types

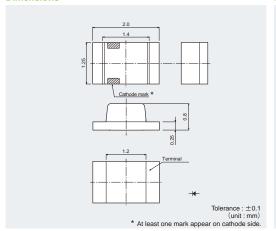
Color Type	٧	U	D
Υ	W	М	P

Specifications

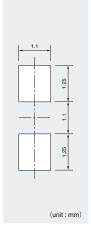
				Abso	Electrical and Optical Characteristics (Ta=25°C) Forward Voltage VF Reverse Current IR Dominant Wavelength λ D Luminous Intensity Iv														
Part No.	Chip Structure	Emitting Color	Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)		Voltage VF	N 4		Domin Min.* ³ (nm)					T	
■SML-212VT	AlGaInP on GaAs		75	30	60* ¹	4	-30 to +85	-40 to +85	2.05		100	4	625	630			22	63	
■SML-210VT	GaAsP on GaP	Red	70			-30 10 +85	-40 (0 +85	,	2 20		4	023	630	635	20	1.4	4	20	
■ SML-212U2T(A)		Reu	75	30) 100* ² 5		-40 to +100	-40 to +100			10	5	611	615	619		71	140	
SML-211UT	AlGalnP		44	20					1.8	2			615	620	625	2	0.9	2.5	2
SML-212DT	on GaAs		75	30	60*1	4	-30 to +85	-40 to +85	2.05	20	100	4				20	25	63	20
SML-211DT		Orange	44	20				10 10 100	1.8	2	100		602	605	608	2	0.9	2.5	2
SML-210DT	GaAsP on GaP		70	25					2	20						20	2.2	6.3	20
SML-212WT(A)			75	30	100*²	5	-40 to +100	-40 to +100		20	10	5	587	590	593	20	112	224	20
SML-211WT	AlGalnP		44	20					1.8	2			367	390	393	2	1.4	4	2
SML-212YT	on GaAs	Yellow	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	100	4	584	587	590	2	1.4	4	2
SML-210YT	GaAsP on GaP				00		-50 10 705	-40 10 403	2.1		100	+					2.2	6.3	
SML-210MT	GaP	Yellowish Green	70	25					2.2	20			567	570	573	20	3.6	16	20
■ SML-210PT	Gar	Green							2.2				557	560	563		1.4	4	

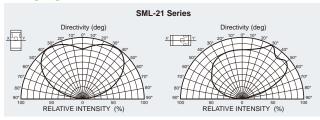
*1:Duty1/5, 200Hz / *2:Duty1/10, 1kHz / *3:Reference

Dimensions



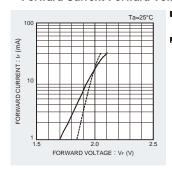
Recommended Solder Pattern Viewing Angle

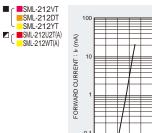


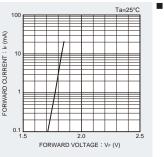


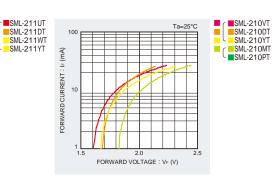
Electrical Characteristics Curves

Forward Current-Forward Voltage

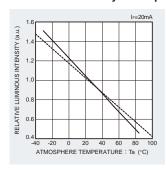


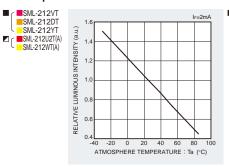


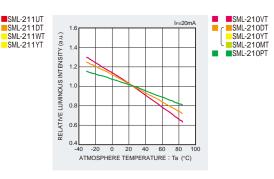




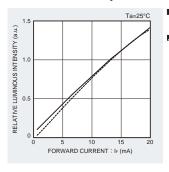
Luminous Intensity-Atmosphere Temperature

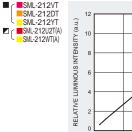


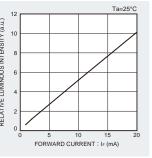


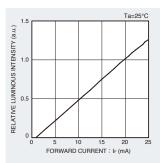


Luminous Intensity-Forward Current

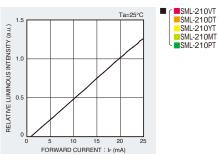




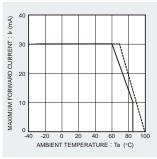




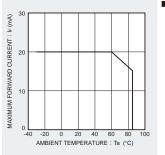
SML-211UT SML-211DT SML-211WT SML-211YT

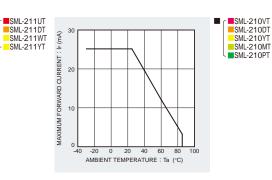


Derating









SML-210MT SML-210PT

Rank Reference of Brightness

Red (V, U)

(Ta=25°C, IF=20mA)

Γ	Parkana	Luminous	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	V	W	Х
١	Package size(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
Π	Mini-mold 20125	0.0	SML-211UT*/*1								SML-2	12VT*						
L	Chip LEDs 20125	0.8		SML-210VT*								S	ML-212U2	T(A)*				

Orange (D)

		` '															(Ta=25°C,	IF=20mA)
ſ		Parkane	Luminous Intensity	G	Н	J	K	L	М	N	Р	Q	R	S	T	U	V	W	Х
1		size(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	20125	0.8		SML-21	1DT**/*1						SML-	212DT						
Į	Chip LEDs	20125	0.8				SML-2	IODT*											

Yellow (Y, W)

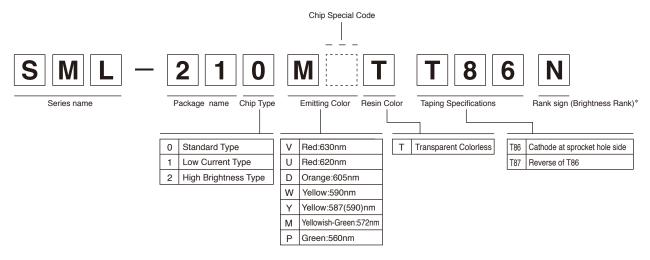
																	(Ta=25°C,	IF=20mA)								
	Pack	ane	Luminous	G	Н	J	K	L	M	N	Р	Q	R	S	T	U	V	W	X								
	size(r	nm) Hei			1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600								
			0.8		SM	L-211YT*	/ ※1					SML-2	12YT*														
Mini-mo	old 201	25			SML-211WT*/*		E/※ 1							S	ML-212W	T(A)*											
Chilp LEDS	03							0.0								SML-2	10YT*										

Green (M, P)

	• ′	•															(T	a=25°C, Ir	==20mA)
	Package	Luminous	F	G	Н	J	K	L	M	N	Р	Q	R	S	T	U	V	W	X
			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-2	10PT*												
Chip LEDs	20125	0.0						SML-2	10MT*										

*Please note that the brightness of some products may fall between ranks (half rank). <code>%Brightness</code> on specification sheet include tolerance of within \pm 10%. <code>%1 lF=2mA</code>

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 distributer if necessary.

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