

SML-81 series

3412(1305) 3.4×1.25mm(t=1.1mm)

Features

·Reverse-mount available type

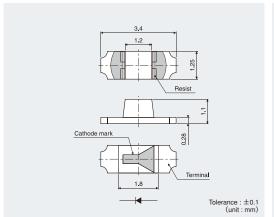


Specifications

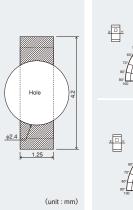
				Abso	lute Maxim	um Rating	s (Ta=25℃)				Electric	cal and	Optica	l Chara	acterist	ics (Ta=	=25°C))	
Part No.	Chip Structure	Emitting Color	Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)						Domin Min.*3 (nm)			th λD IF(mA)			
SML-811VT(A)		Red											625	630	636		11	22	
■SML-811UT(A)		neu											615	620	625		11.2	22.4	
SML-811DT(A)	AlGalnP	Orange	62		100*2	5	-40 to +85	-40 to +100	1.95	10		5	602	605	608	10	11.2	22.4	10
SML-811WT(A)	AlGallir	Yellow		25							100		587	590	593		14	28	
SML-811YT(A)		reliow									100		584	587	590		9	18	
SML-812MT		Yellowish	65		60*1	4			2.1			_	569	572	575		14	40	
SML-810MT	GaP	Green	65		60	4	-30 to +85	-40 to +85	2.2	20		4	567	570	573	20	5.6	16	20
SML812BCT	InGaN	Blue		20	100*2	5			3.3			5	464	470	476		22	56	
□SML813WBC8W	ilidan	White	66	20	100	3	-40 to +85	-40 to +100	2.9	5		3	(x, y)	(0.30,	0.30)	5	22	45	5

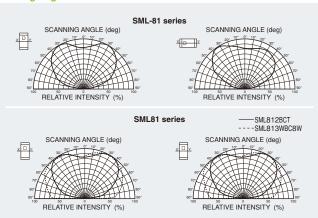
*1:Duty1/5, 200Hz / *2:Duty1/10,1kHz / *3:Reference

Dimensions



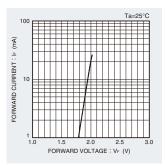
Recommended Solder Pattern Viewing Angle

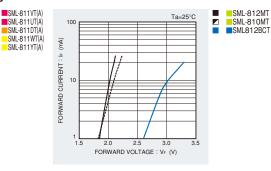


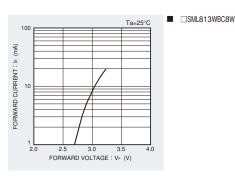


Electrical Characteristics Curves

Forward Current-Forward Voltage

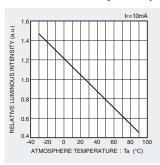


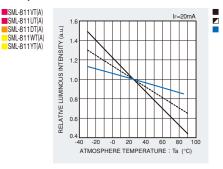


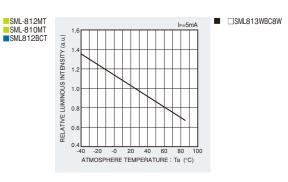


Luminous Intensity-Atmosphere Temperature

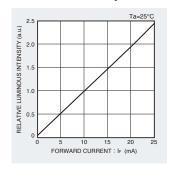
SMI -811VT(A)

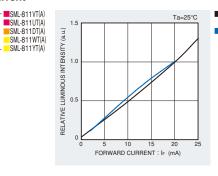


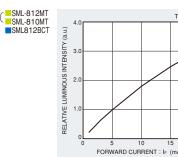


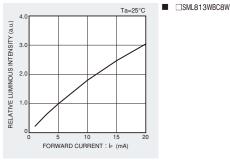


Luminous Intensity-Forward Current

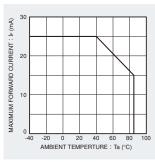


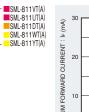


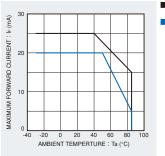


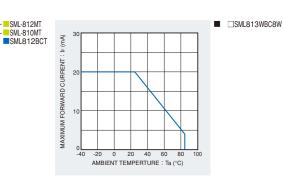


Derating









Rank Reference of Brightness

Red (V, U)

Package	Package	Height	Luminous		AH	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	AX
structure	size	(mm)	I _F (mA) (mod)	9.0 to 11.2	11.2 to 14	14 to 18	18 to 22.4	22.4 to 28	28 to 35.5	35.5 to 45	45 to 56	56 to 71	71 to 90	90 to 112	112 to 140	140 to 180	180 to 224	224 to 280	280 to 355
Reverse Mount	24105	1.1	10				SML-811	VT(A)*											
Heverse Mount	34125	1.1	10				SML-811	UT(A)*											

Orange (D)

Package	Package	Height	Luminous	AG	AH	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	AX
structure	size	(mm)	I _F (mA) (mod)	9.0 to 11.2	11.2 to 14	14 to 18	18 to 22.4	22.4 to 28	28 to 35.5	35.5 to 45	45 to 56	56 to 71	71 to 90	90 to 112	112 to 140	140 to 180	180 to 224	224 to 280	280 to 355
Reverse Mount	t 34125	1.1	10				SML-811	DT(A)*											

Yellow (W, Y)

Pack	age	Package	Height	Luminous	AG	AH	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	AX
struc	ture	size	(mm)	I _F (mA) (mod)	9.0 to 11.2	11.2 to 14	14 to 18	18 to 22.4	22.4 to 28	28 to 35.5	35.5 to 45	45 to 56	56 to 71	71 to 90	90 to 112	112 to 140	140 to 180	180 to 224	224 to 280	280 to 355
D	Marria	24105	4.4	10					SML-811	WT(A)*										
Heverse	Reverse Mount	34125	1.1	10			SML-811	YT(A)*												

Green (M)

Package	Package	Height	Luminous	G	Н	J	K	L	М	N	Р	Q	R	S	T	U	V	W	Х
structure	size	(mm)	I _F (mA) (mod)	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
Reverse Mount	24105	4.4	10						SML-8	10MT**									
Heverse Mount	34125	1.1	10								SML-8	12MT*							

Blue (B)

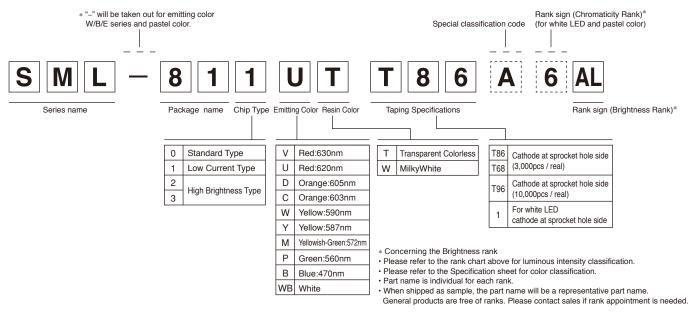
Package	Package	Height	Luminous Intensity	G	Н	J	K	L	М	N	Р	Q	R	S	T	U	V	W	Х
structure	size	(mm)	I _F (mA) (mod)	0.9 to 1.4	1.4 to 2.2	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400
Reverse Mount	24105	1.1	20									SML81	3BC8T						
neverse would	34125	1.1	20									SML8	12BCT						

White (WB)

Package	Package	Height	Luminous	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	V	W	Х
structure	size	(mm)	I _F (mA) (mod)	0.9 to 1.4	1.4 to 2.2	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400
Reverse Moun	t 34125	1.1	20								SM	L813WBC	8W						

*Please note that the brightness of some products may fall between ranks (half rank). $\rm \divideontimes Brightness$ on specification sheet include tolerance of within $\pm 10\%$.

Part No. Construction



^{*} Please refer to the Specification sheet about Taping specification.

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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