



SML-11 Series

3020(1208)
 3.0×2.0mm(t=1.6mm)

Features

- Side-view with reflector type
- 3.0×2.0mm t=1.6mm

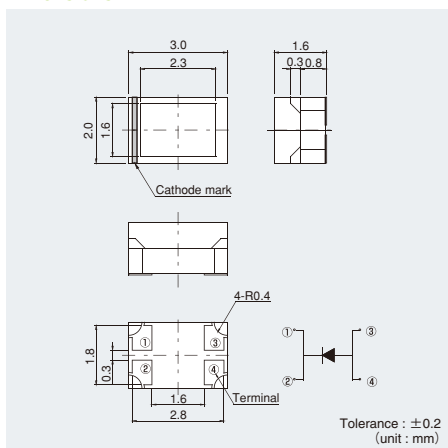
Color Type	L	V	D	Y
	M	F	P	W

Specifications

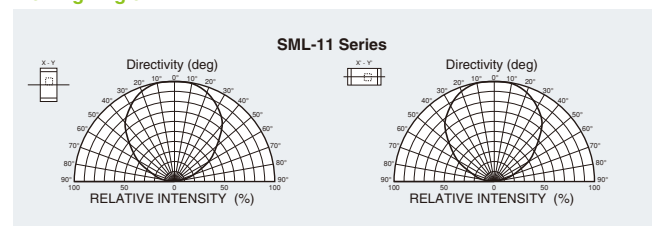
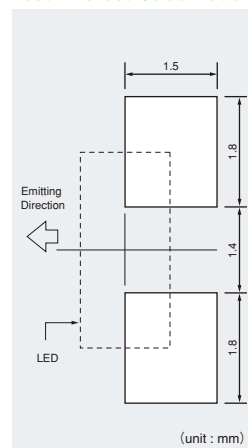
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λD			Luminous Intensity Iv			
									Typ.(V)	IF(mA)	Max. (μA)	VR(V)	Min. (nm)	Typ. (nm)	Max.*2 (nm)	IF(mA)	Min. (mcd)	Typ. (mcd)	IF(mA)
SML-110VT	GaAsP on GaP	Red							2.0				625	630	635		2.2	6.3	
SML-110DT		Orange											602	605	608		3.6	10	
SML-110YT		Yellow	70	25	60*1	4	-30 to +85	-40 to +85	2.1				587	590	593	20	2.2	6.3	20
SML-110MT	Yellowish Green								20	100	4	569	572	575	5.6		16		
SML-110FT	GaP	Green							2.2			562	565	568	3.6		10		
SML-110PT		Green											557	560	563	2.2	6.3		

* 1: Duty 1/5, 200Hz / * 2: Reference

Dimensions

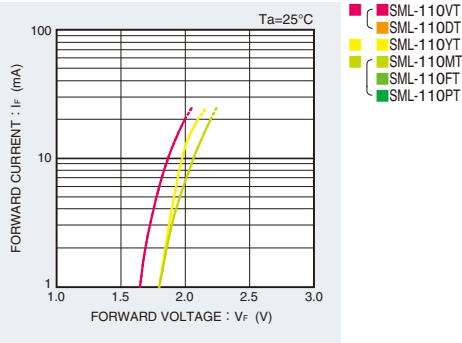


Recommended Solder Pattern Viewing Angle

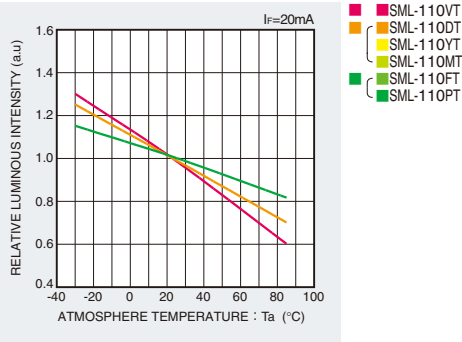


Electrical Characteristics Curves

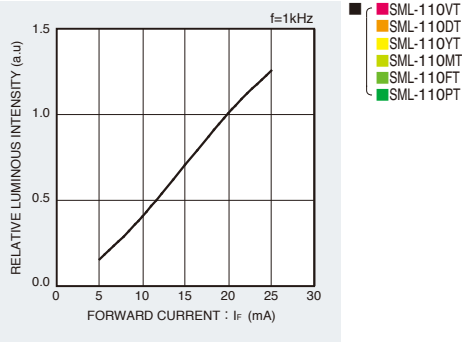
Forward Current-Forward Voltage



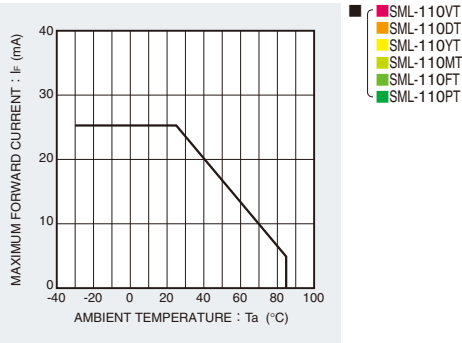
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Rank Reference of Brightness

Red (V)

		Luminous Intensity (mcd)	(Ta=25°C, If=20mA)									
Package size(mm)	Height(mm)		G	H	J	K	L	M	N	P	Q	
Side View (reflector)	3020	1.6	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	
SML-110VT												

Orange (D)

		Luminous Intensity (mcd)	(Ta=25°C, If=20mA)									
Package size(mm)	Height(mm)		G	H	J	K	L	M	N	P	Q	
Side View (reflector)	3020	1.6	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	
SML-110DT												

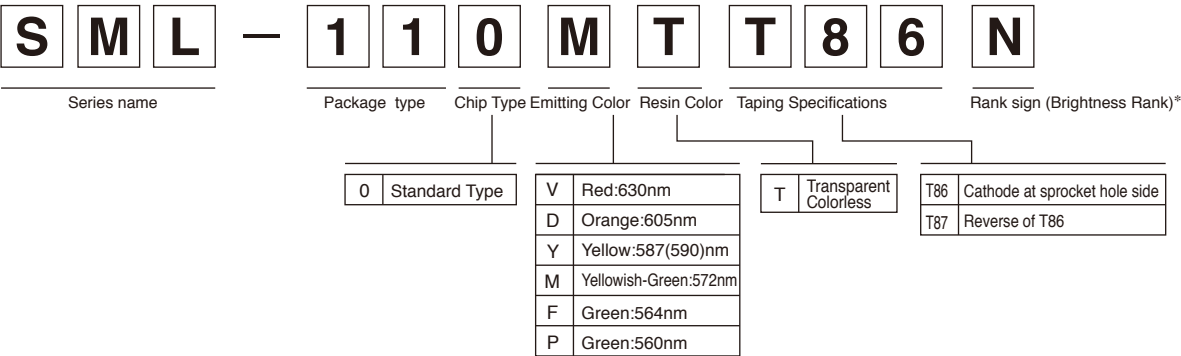
Yellow (Y)

		Luminous Intensity (mcd)	(Ta=25°C, If=20mA)									
Package size(mm)	Height(mm)		G	H	J	K	L	M	N	P	Q	
Side View (reflector)	3020	1.6	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	
SML-110YT												

Green (M, P, F)

		Luminous Intensity (mcd)	(Ta=25°C, If=20mA)									
Package size(mm)	Height(mm)		F	G	H	J	K	L	M	N	P	Q
Side View (reflector)	3020	1.6	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
SML-110MT												
SML-110FT												
SML-110PT												

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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