



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

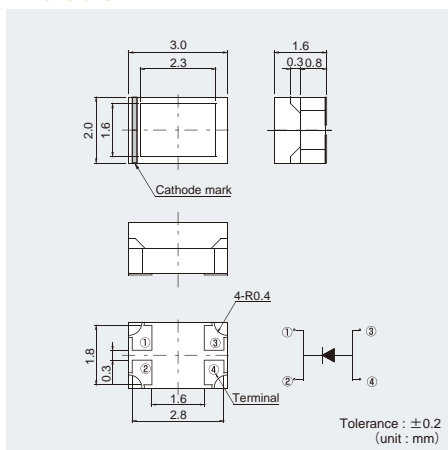


Specifications

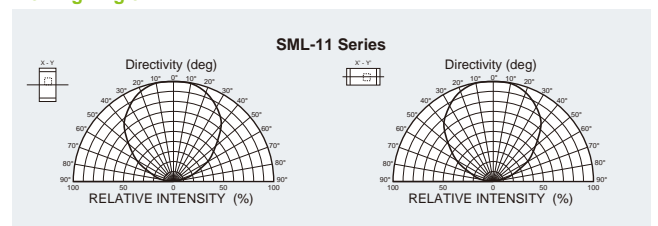
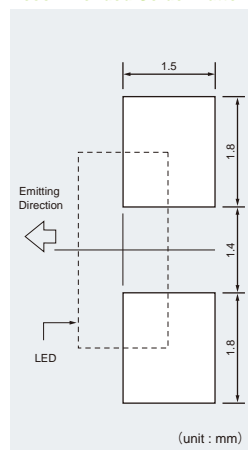
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd(mW)	Forward Current IF(mA)	Peak Forward Current I _{PF} (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)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

* 1:Duty1/5, 200Hz / * 2:Reference

Dimensions

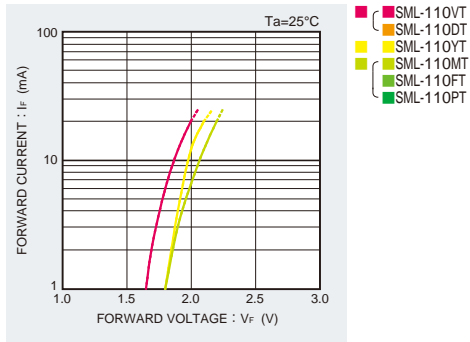


Recommended Solder Pattern Viewing Angle

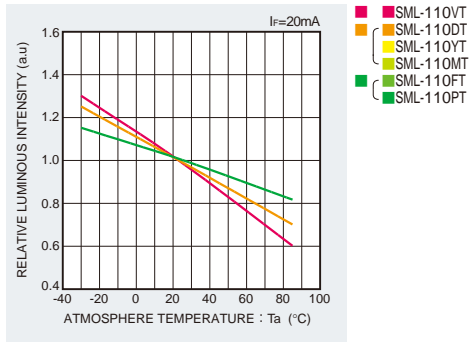


Electrical Characteristics Curves

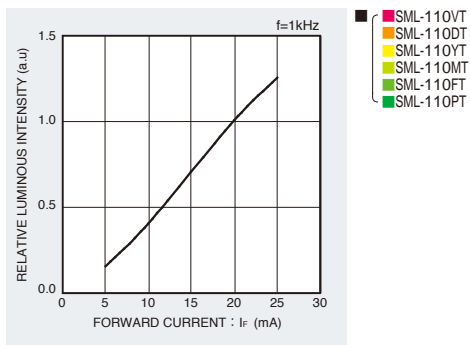
Forward Current-Forward Voltage



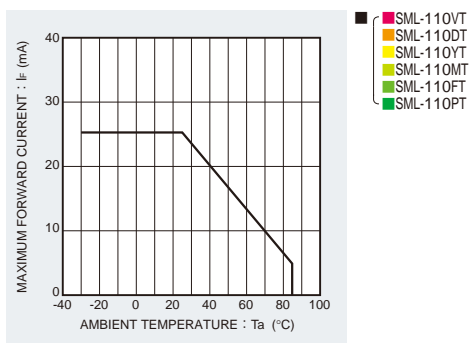
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



SML-11 Series

Rank Reference of Brightness

Red (V)

(Ta=25°C, If=20mA)

Package size(mm) Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q
		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
Side View (reflector)	3020	1.6			SML-110VT					

Orange (D)

(Ta=25°C, If=20mA)

Package size(mm) Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q
		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
Side View (reflector)	3020	1.6			SML-110DT					

Yellow (Y)

(Ta=25°C, If=20mA)

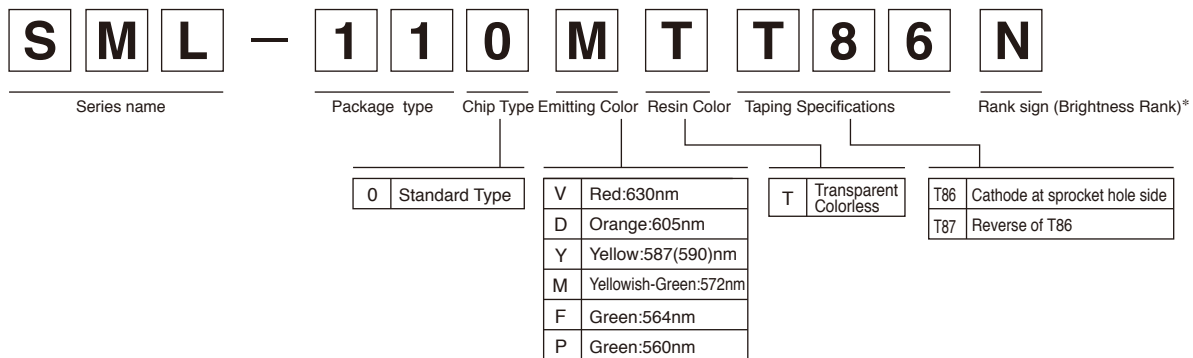
Package size(mm) Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q
		1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63
Side View (reflector)	3020	1.6			SML-110YT					

Green (M, P, F)

(Ta=25°C, If=20mA)

Package size(mm) Height(mm)	Luminous Intensity (mcd)	F	G	H	J	K	L	M	N	P	Q	
		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	
Side View (reflector)	3020	1.6	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) included 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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