



# 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

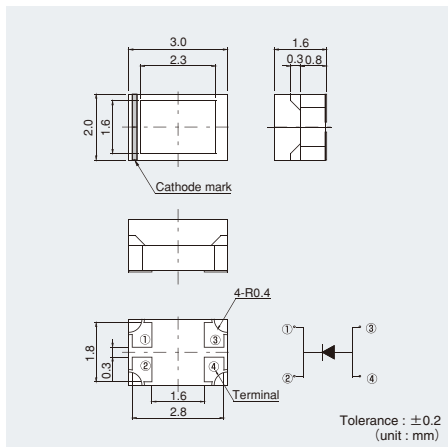


### Specifications

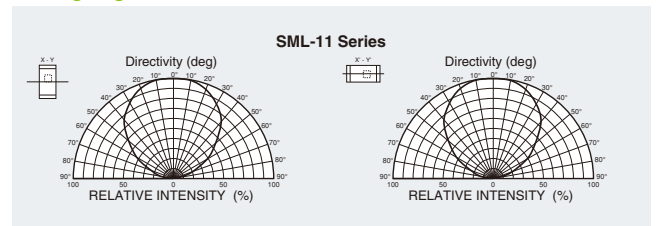
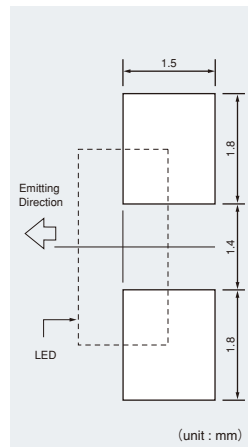
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)											
			Power Dissipation Pd(mW)	Forward Current IF(mA)	Peak Forward Current I <sub>FP</sub> (mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ.(V)	IF(mA)	Reverse Current IR Max.(μA)	VR(V)	Dominant Wavelength λ D Min.*2 Typ. Max.*2			Luminous Intensity Iv Min. Typ. IF(mA)			
<b>SML-110VT</b>	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	20
<b>SML-110DT</b>		Orange											602	605	608		3.6	10	
<b>SML-110YT</b>	Yellow	587							590	593	2.2	6.3							
<b>SML-110MT</b>	Yellowish Green	569							572	575	5.6	16							
<b>SML-110FT</b>	GaP	Green							562	565	568	3.6	10						
<b>SML-110PT</b>		Green							557	560	563	2.2	6.3						

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

### Dimensions

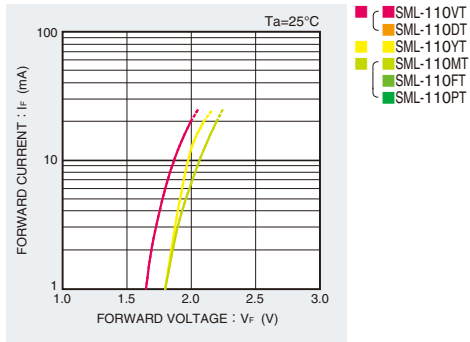


### Recommended Solder Pattern Viewing Angle

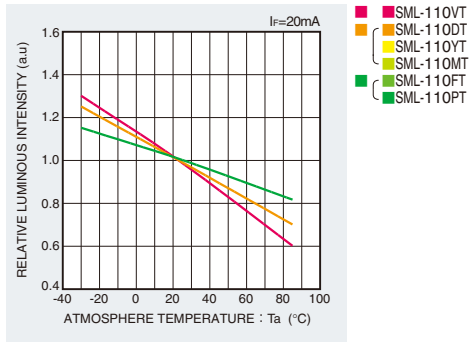


## Electrical Characteristics Curves

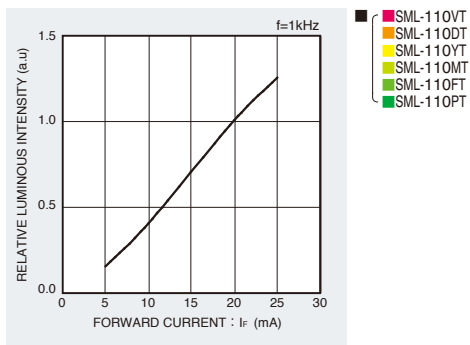
### Forward Current-Forward Voltage



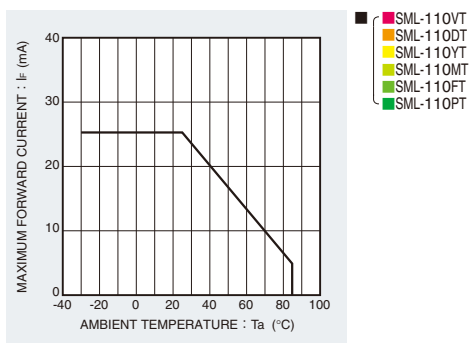
### Luminous Intensity-Atmosphere Temperature



### 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)

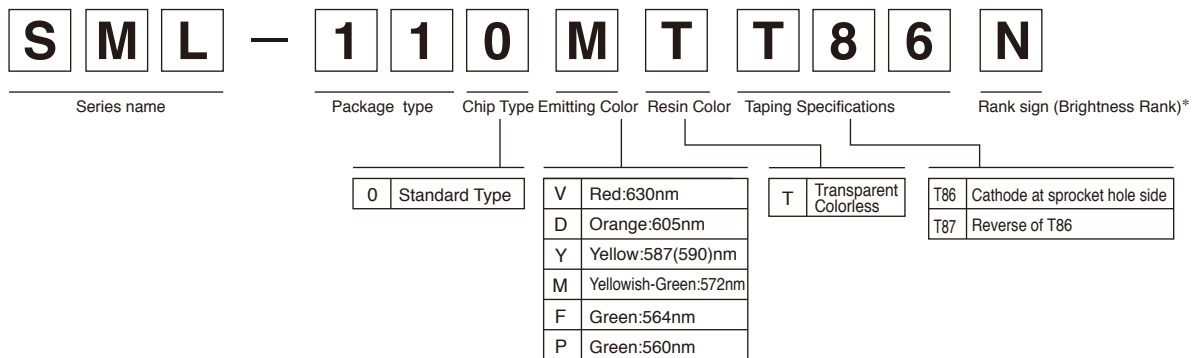
Package size(mm) Height(mm)	Luminous Intensity (mcd)	G	H	J	K	L	M	N	P	Q
		1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63
Side View (reflector)	3020	1.6			SML-110YT					

### 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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