Features

ROHM

- Original device technology enables high brightness and high reliability
- Single Rank products

Size

Dimensions

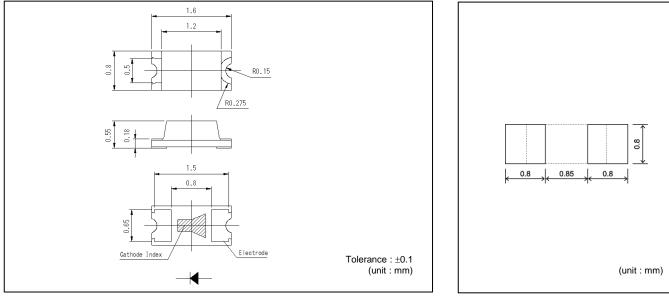
1608 (0603)	
1.6×0.8mm (t=0.55mm)	



Outline



•Recommended Solder Pattern



Specifications

		Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
Part No.	Chip Structure		Power Forward		Peak Forward Reverse			Storage Temp.	Forward	Voltag V _F	Reverse	Current I _R	Dominant Wavelength λD Luminous Inter				nsity I_V		
r art No.			Dissipation Curren			Voltage	operating remp.	otorage remp.	Тур.	I _F	Max.	V _R	Min.*2	Тур.	Max.*2	١ _F	Min.	Тур.	I _F
			$P_D(mW)$	I _F (mA)	I _{FP} (mA)	V _R (V)	Topr(°C)	Tstg(°C)	(V)	(mA)	(µA)	(V)	(nm)	(nm)	(nm)	(mA)	(mcd)	(mcd)	(mA)
SML-D15VW	AlGalnP	Red	84	35	100* ¹	5	-40 to +100	-40 to +100	2.0 0 2.1	20	10	5	627	630	634	-	71	90	112
SML-D15UW													616	620	624		90	112	
SML-D15U2W													612	615	618	20	112	140	
SML-D15DW		Orange											602	605	608	3	180	224	20
SML-D15YW		Yellow											587	590	593				
SML-D15MW		Yellowish Green											568	571	574		56	71	

*1:Duty1/10, 1kHz *2:Reference

reference

•Electrical Characteristics Curves

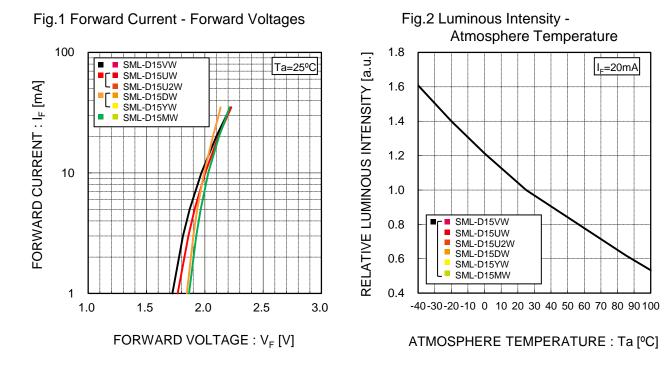
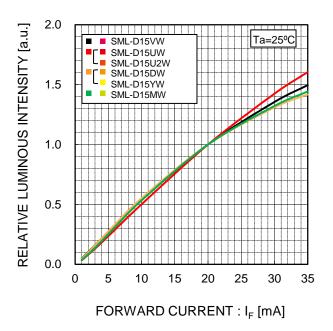
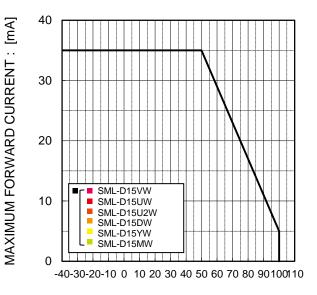


Fig.3 Luminous Intensity - Forward Current





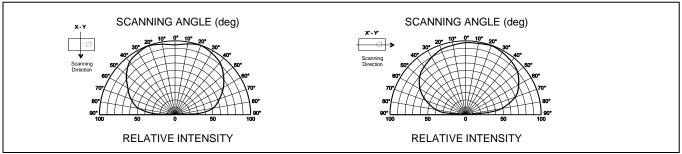


AMBIENT TEMPERATURE : Ta [°C]

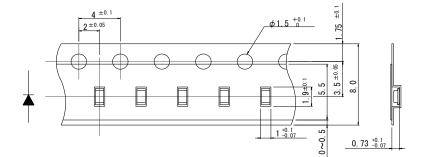
TjMax ... 110°C *Cu foil : 1.5mm × 1.0mm t=0.035mm Cathode PCB : FR4 t=0.8mm

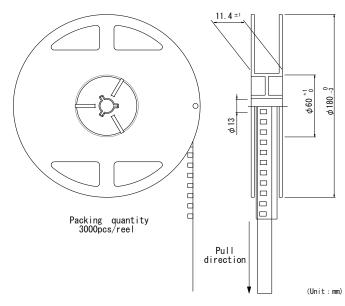
•Viewing Angle





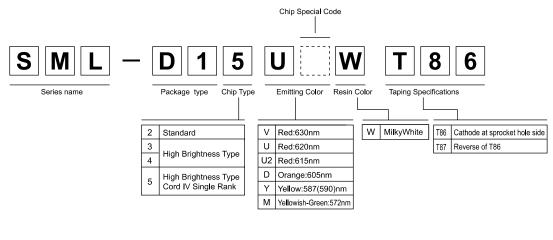
•Taping [T86]





(Note) Tolerance is within ± 0.2 mm, unless otherwise spectrum

•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.

	Notes
1)	The information contained herein is subject to change without notice.
2)	Before you use our Products, please contact our sales representative and verify the latest specifica- tions :
3)	Although ROHM is continuously working to improve product reliability and quality, semicon- ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.
4)	Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The periphera conditions must be taken into account when designing circuits for mass production.
5)	The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
6)	The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communi- cation, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
7)	The Products specified in this document are not designed to be radiation tolerant.
8)	For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
9)	Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
10)	ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
11)	ROHM has used reasonable care to ensur the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
12)	Please use the Products in accordance with any applicable environmental laws and regulations such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting non-compliance with any applicable laws or regulations.
13)	When providing our Products and technologies contained in this document to other countries you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.
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ROHM Customer Support System

http://www.rohm.com/contact/



SML-D15VW - Web Page



Part Number	SML-D15VW
Package	SML-D15
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes