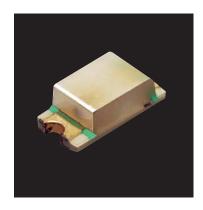


High Brightness Single Rank 1608-Size Chip LEDs

SML-D15 Series



Optimized design delivers stable brightness with minimal variations

Product Outline

In automotive applications such as car audio and navigation systems, it is common to specify a particular brightness rank in order to suppress brightness variations. ROHM developed the SML-D15 series using advanced original process technology that enables stable production of single rank products, ensuring minimal brightness variations in end applications.

Key Features

- 1608-size package
- Single brightness rank offered
- 2-3x brighter than conventional products (SML-D12x8W)
- AEC-Q101 (automotive reliability standard) qualified

■ Single Rank Advantages

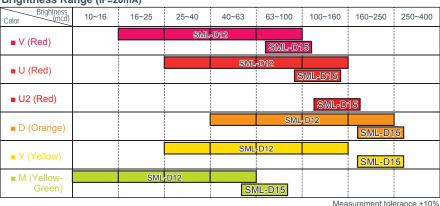
- Brightness variations minimized between individual LEDs in customer sets
- No need to select different resistances (for current control) for each rank, significantly reducing design man-hours
- · No inventory management required for multiple ranks
- Eliminates the need specify ranks

SML-D15 Lineup

Part No.	Absolute Maximum Ratings						Electrical-Optical Characteristics								
	Permissible Loss PD (mW)	Forward Current IF (mA)	Peak Forward Current IFP (mA) (at Duty1 /10.1kHz)	Reverse Voltage VR (V)	Operating Temp. Topr (°C)	Storage Temp. Tstg (°C)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λ		Brightness IV*1		
							Typ. (V)	IF (mA)	Max. (µA)	V (V)	Typ. (nm)	IF (mA)	Min. (mcd)	Max. (mcd)	IF (mA)
■ SML-D15VW	84	35	100	5	-40 to +100	-40 to +100	2.0	20	10	5	630	- 20	71	112	- 20
■ SML-D15UW											620		90	140	
■ SML-D15U2W											615		112	180	
■ SML-D15DW											605		180	280	
SML-D15YW	87						2.1				590				
■ SML-D15MW											571		56	90	

*1: Measurement tolerance ±10%

Brightness Range (IF=20mA)



External 1.6 Dimensions 1.2 Ro.15 Ro.275

Cathode Mark Electrode

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The content specified in this document is correct as of 19th November, 2015.

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