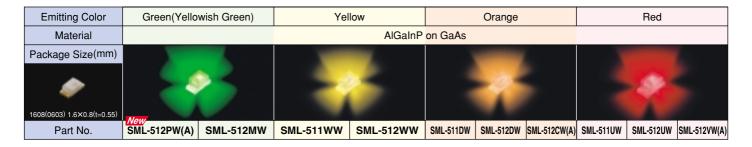
$0603<1.6\times0.8 t=0.55mm>$ **High Brightness Type**



SML-51□



■ Absolute Maximum Ratings (Ta=25°C)

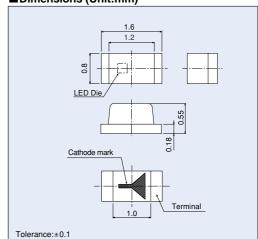
Part No.	Emitting color	Power dissipation Pp (mW)	Forward current IF (mA)	Peak forward current IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)	
SML-512MW	Green (Yellowish Green)	65	25	100*2	5	-30 to +85	-40 to +85	
SML-511WW	Yellow	62	23	60*1	4	-30 to +85	-40 to +85	
SML-512WW	reliow	75	30	100*2	5	-40 to +100	-40 to +100	
SML-511DW		62	25	60*1	4	-30 to +85	-40 to +85	
SML-512DW	Orange	75	30	100*2	5	-40 to +100	-40 to +100	
SML-512CW(A)		,,,		100		10 10 1100		
SML-511UW		62	25	60*1	4	-30 to +85	-40 to +85	
SML-512UW	Red	75	30	100*2	5		-40 to +100	
SML-512VW(A)						-40 to +100		
SML-512PW(A)	Green (Yellowish Green)	65	25					

^{*1:}Duty ≤1/5, pulse width ≤1ms. *2:Duty 1/10, 1kHz

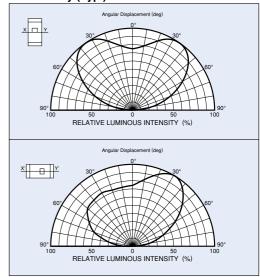
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SML-512MW		2.1		100	5	570	18		14	40	
SML-511WW				100	4	590	15		22	40	
SML-512WW				10	5	390	15		36	63	
SML-511DW				100	4				14	40	
SML-512DW	Milky White	2.0	20	10	5	611	16	20	36	100	20
SML-512CW(A)									71	112	20
SML-511UW				100	4	630	18		14	40	
SML-512UW				10		030	10		22	63	
SML-512VW(A)				10	5	639	16		35.5	56	
SML-512PW(A)		2.1		100		563	15		5.6	14	

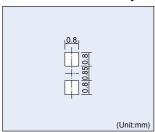
■Dimensions (Unit:mm)



■Directivity (Typ.)

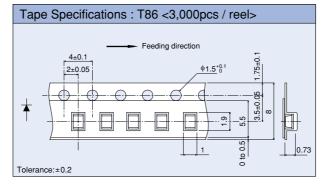


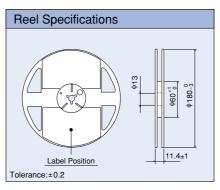
■ Recommended Pad Layout



The recommended thickness of the screen mask for soldering is between 100 and 150 $\mu m.\ The$ hole size of the screen mask should be same as the recommended land pattern or smaller.

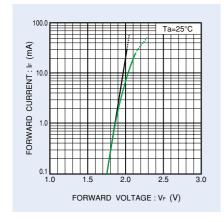
■ Packaging Specifications (Unit: mm)





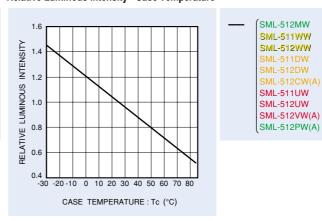
■ Electrical Characteristic Curves

Forward Current - Forward Voltage

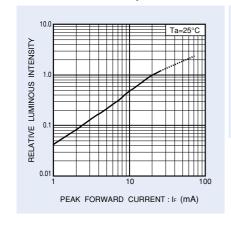


SML-512MW
SML-511WW
SML-512WW
SML-511DW
SML-512DW
SML-512CW(A)
SML-511UW
SML-512UW
SML-512UW
SML-512VW(A)
SML-512VW(A)

Relative Luminous Intensity - Case Temperature

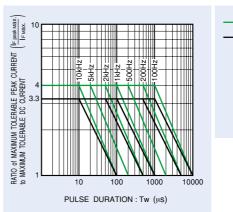


Relative Luminous Intensity - Forward Current



SML-512MW SML-511WW SML-511DW SML-511DW SML-512DW SML-512UW SML-512UW SML-512UW SML-512VW(A) SML-512VW(A)

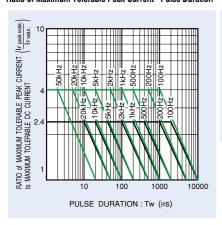
Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-512WW SML-512DW SML-512CW(A) SML-512UW SML-512VW(A)

SML-512MW

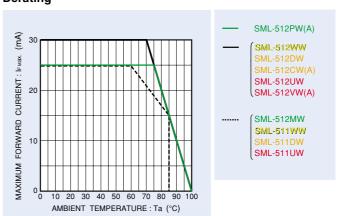
Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-511PW(A)

(SML-511WW
SML-511DW
SML-511UW

Derating



Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any
 means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
 product described in this document are for reference only. Upon actual use, therefore, please request
 that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
 otherwise dispose of the same, no express or implied right or license to practice or commercially
 exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by ROHM manufacturer:

Other Similar products are found below:

LTST-C190KYKT LTST-C19GD2WT LTST-N683GBEW LTW-170ZDC LTW-M140SZS40 598-8110-100F 598-8170-100F 598-8610202F 67-22VRVGC/TR8 AAAF5060QBFSEEZGS HLMA-QG00-S0021 HLMP-6305-L0011 ALMD-LB36-SV002 APT1608QGW 1521UYC/S530-A3/TR8 EAST2012YA0 EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML512VWT86A SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03
APB3025SGNC APFA3010SURKCGKQBDC APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST-C250KGKT
LTW-020ZDCG LTW-21TS5 LTW-220DS5 JANTXM19500/521-02 UYGT801-S 42-21UYC/S530-A3/TR8 LO T67F-V1AB-24-1
YGFR411-H 598-8330-117F SML-LX0402IC-TR CMDA20AYAA7D1S CMDA16AYDR7A1X 598-8040-100F 598-8070-100F 598-8140100F 598-8610-200F EAST2012GA0