



SML-51 Series

1608(0603) 1.6×0.8mm(t=0.55mm)

Features

- ·Original device technology enables high brightness and high reliability
- ·High reliability due to the wide operation temperature(- 40° C to + 100° C) (SML-512(A) Series)







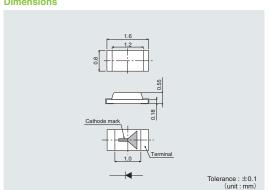


Specifications

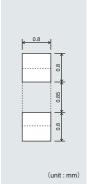
	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)							Electrical and Optical Characteristics (Ta=25°C)									
Part No.			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward \ Typ.(V)	I=(A)		\ /- (\ /\		ant Wa Typ. (nm)	aveleng Max.* ³ (nm)	th λD IF(mA)	Lumino Min. (mcd)		
SML-512VW(A)	AlGaInP on GaAs Yello Yello Gree Gree	Red	75	30	100*2	5	-40 to +100	-40 to +100			10	10 5	626	630	636		35.5	56	
SML-512VW																	22	63	
■SML-512UW													619	624					
SML-511UW			62	25	60*1	4	-30 to +85	-40 to +85			100	4	615	620	625		14	40	
SML-512CW(A)		Orange	75	30	100*2	5	-40 to +100	-40 to +100	2.0		10	5	600	603	606		71	112	
SML-512DW										20	10		603	606	609	20	36	100	20
SML-511DW			62	25	60* ¹	4	-30 to +85	-40 to +85			100	4	602	605	608		14	40	
SML-512WW		Yellow	75	30	100*2	5	-40 to +100	-40 to +100			10	5	587	590	593 575		36	63	
SML-511WW			62		60* ¹	4	-30 to +85	-40 to +85				4					22	40	
SML-512MW		Yellowish Green	65	25	100*2	5			2.1		100			570			14	40	
SML-512PW(A)		Green					-40 to +100	-40 to +100			100	5	557	560	563		5.6	14	
SML512BC5T		Blue	66	20			-40 10 +100		2.9	5			464	470	476	5	5.0	16	5

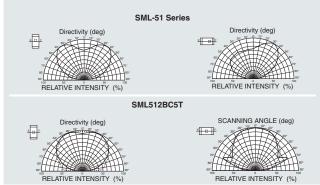
*1:Duty1/5, 200Hz / *2:Duty1/10, 1kHz / *3:Reference

Dimensions



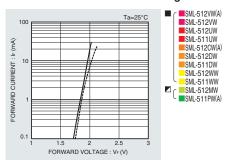
Recommended Solder Pattern Viewing Angle

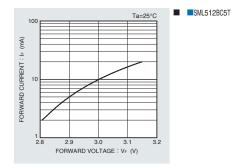




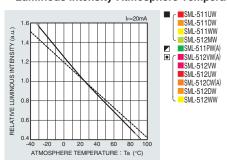
Electrical Characteristics Curves

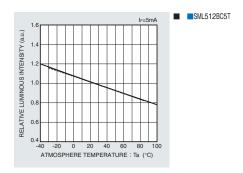
Forward Current-Forward Voltage



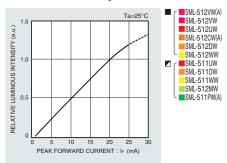


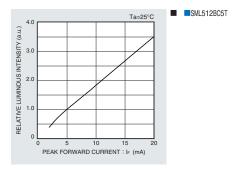
Luminous Intensity-Atmosphere Temperature



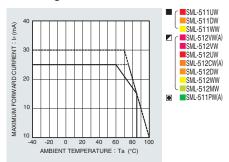


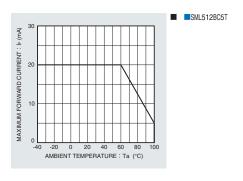
Luminous Intensity-Forward Current





Derating





Notes

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