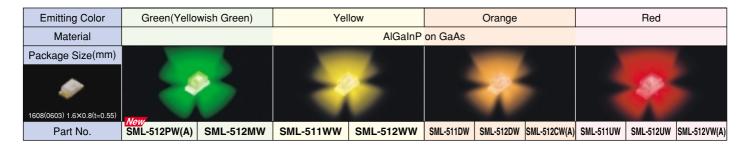
$0603<1.6\times0.8 t=0.55mm>$ **High Brightness Type**



SML-51□



■ Absolute Maximum Ratings (Ta=25°C)

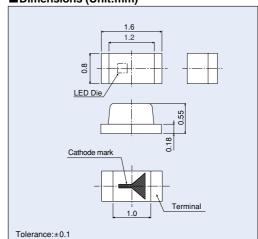
Part No.	Emitting color	Power dissipation PD (mW)	Forward current IF (mA)	Peak forward current IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)	
SML-512MW	Green (Yellowish Green)	65	25	100*2	5	-30 to +85	-40 to +85	
SML-511WW	Yellow	62	25	60*1	4	-30 to +85	-40 to +85	
SML-512WW	reliow	75	30	100*2	5	-40 to +100	-40 to +100	
SML-511DW	Orange	62	25	60*1	4	-30 to +85	-40 to +85	
SML-512DW		75	00	100*2	5	-40 to +100	-40 to +100	
SML-512CW(A)		75	30	100	5	-40 10 + 100		
SML-511UW		62	25	60*1	4	-30 to +85	-40 to +85	
SML-512UW	Red	75	30	100*2	5			
SML-512VW(A)						-40 to +100	-40 to +100	
SML-512PW(A)	Green (Yellowish Green)	65	25					

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

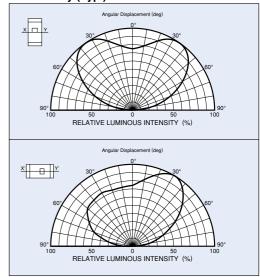
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current IR		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	Milky White	2.0	20	100	4	611	16	20	14	40	20
SML-512DW				10	5				36	100	
SML-512CW(A)									71	112	
SML-511UW				100	4	630	18		14	40	
SML-512UW				10					22	63	
SML-512VW(A)				10	5	639	16		35.5	56	
SML-512PW(A)		2.1		100		563	15		5.6	14	

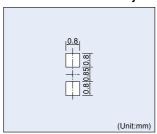
■Dimensions (Unit:mm)



■Directivity (Typ.)

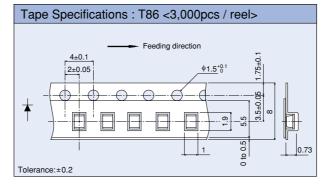


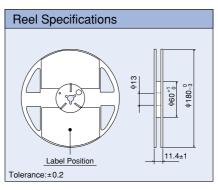
■ Recommended Pad Layout



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.

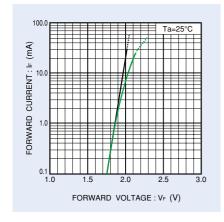
■ Packaging Specifications (Unit: mm)





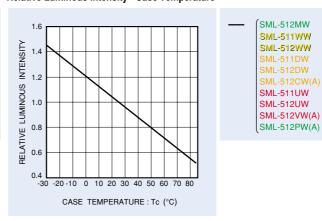
■ Electrical Characteristic Curves

Forward Current - Forward Voltage

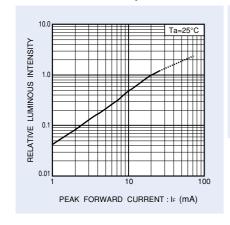


SML-512MW
SML-511WW
SML-512WW
SML-511DW
SML-512DW
SML-512CW(A)
SML-511UW
SML-512UW
SML-512UW
SML-512VW(A)
SML-512VW(A)

Relative Luminous Intensity - Case Temperature

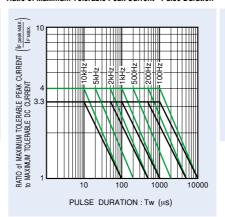


Relative Luminous Intensity - Forward Current



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

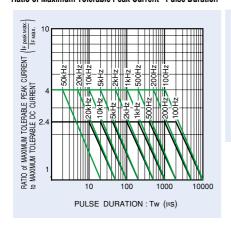
Ratio of Maximum Tolerable Peak Current - Pulse Duration



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

SML-512MW

Ratio of Maximum Tolerable Peak Current - Pulse Duration



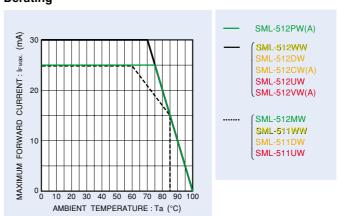
SML-512PW(A)

SML-511WW

SML-511DW

SML-511UW

Derating



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