Side View Chip LEDs 0605<1.6 × 1.15 t=0.55mm>

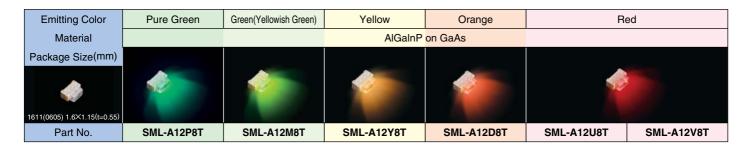
Standard Type



SML-A12*8 Series

Side View

EXCELED™



■ 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-A12P8T	Pure Green						
SML-A12M8T	Green (Yellowish Green)						
SML-A12Y8T	Yellow	54	00	100	-	-40 to +85	-40 to +100
SML-A12D8T	Orange	54	20	100	5	-40 10 +85	-40 10 +100
SML-A12U8T	Dod						
SML-A12V8T	Red						

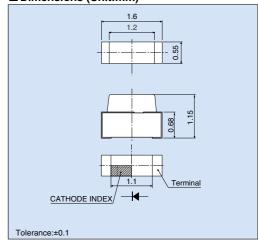
^{*:}Duty ≦1/10, 1kHz.

■Electrical Optical Characteristics (Ta=25°C)

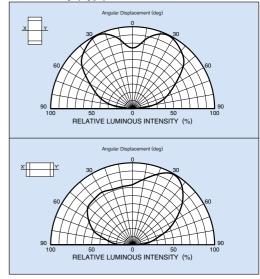
Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Dominant λD		Brightness Iv		
		Typ.	lf * (mA)	Max. (μA)	VR (V)	Typ. (nm)	lF * (mA)	Min. (mcd)	Typ. (mcd)	IF * (mA)
SML-A12P8T						560		2.5	6.3	
SML-A12M8T						572		10	25	
SML-A12Y8T	Transparent	2.2	20	10	5	590	20	25	63	20
SML-A12D8T	Colorless	2.2	20	10	5	605	20	40	100	20
SML-A12U8T						620		25	63	
SML-A12V8T						630		16	40	

^{*}Pulse width : 30ms

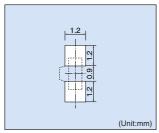
■ Dimensions (Unit:mm)



■Directivity (Typ.)

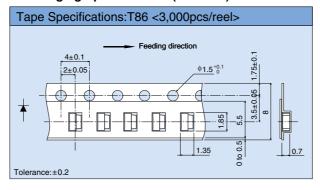


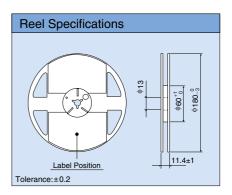
■Recommended Pad Layout



The recommended thickness of the screen mask for soldering is more than 150µm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Specifications (Unit:mm)



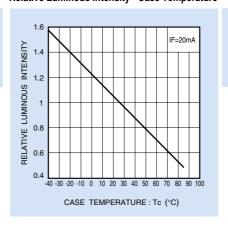


■Electrical Characteristic Curves

Forward Current - Forward Voltage

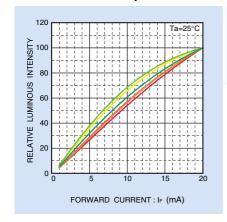
SML-A12P8T
— SML-A12M8T
— SML-A12V8T
— SML-A12D8T
— SML-A12U8T
— SML-A12V8T

Relative Luminous Intensity - Case Temperature



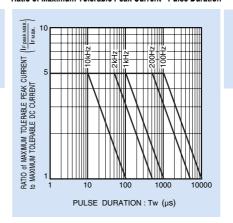
(SML-A12P8T SML-A12M8T SML-A12Y8T SML-A12D8T SML-A12U8T SML-A12V8T

Relative Luminous Intensity - Forward Current



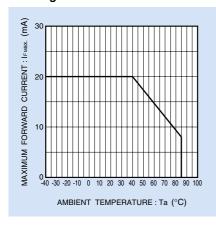
- SML-A12P8T - SML-A12M8T - SML-A12Y8T - SML-A12D8T - SML-A12U8T - SML-A12V8T

Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-A12P8T SML-A12M8T SML-A12Y8T SML-A12D8T SML-A12U8T SML-A12V8T

Derating



SML-A12P8T SML-A12W8T SML-A12Y8T SML-A12D8T SML-A12U8T SML-A12V8T

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