0603 <1.6×0.8 t=0.36mm> Low Current Type(IF≦10mA)



SMLE12 Series



note) "-" will be taken out for emitting color B/E series.

■ Absolute Maximum Ratings (Ta=25°C)

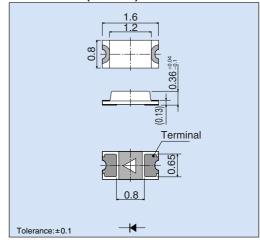
Part No.	rt No. Emitting dissipation cult		Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr (C)	Storage temperature Tstg (C)	
SMLE12BC7T	Blue	66	00	100	5	-30 to +85	-40 to +100	
SMLE12EC6T	Green	68	20	100	0	-30 10 +85		

^{*:}Duty ≦1/10, 1kHz.

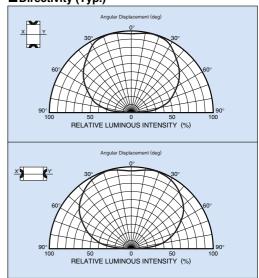
■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	volt V Typ.	Forward voltage V _F		Reverse current In		Light wavelength Peak Half-wave λp Δλ Typ. Typ. IF			Brightness Iv Min. Typ. IF	
		(V)	(mA)	(µA)	(V)	(nm)	(nm)	(mA)	(mcd)	(mcd)	(mA)
SMLE12BC7T	Transparent	2.9	5	100	5	468	26	5	9.0	22	5
SMLE12EC6T	Colorless	3.0	3	100	J	521	35	5	36	85	5

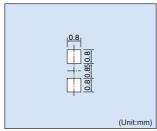
■Dimensions (Unit:mm)



■ Directivity (Typ.)

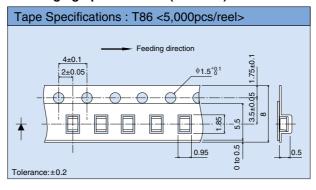


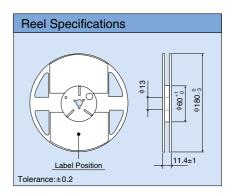
■Recommended Pad Layout



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

■Packaging Specifications (Unit:mm)



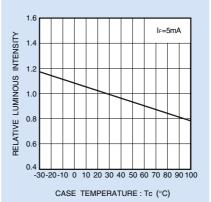


■Electrical Characteristic Curves

Forward Current - Forward Voltage

100.0 Ta=25°C Ta=25°C Ta=25°C (W) 10.0 Correction of the corre

Relative Luminous Intensity - Case Temperature

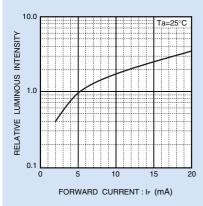


SMLE12BC7T SMLE12EC6T

SMLE12BC7T

SMLE12EC6T

Relative Luminous Intensity - Forward Current

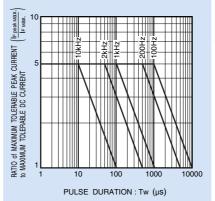


SMLE12BC7T SMLE12EC6T

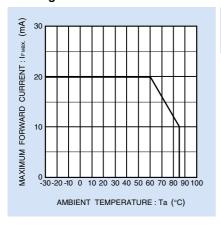
SMLE12BC7T

SMLE12EC6T

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



SMLE12BC7T SMLE12EC6T

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