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)

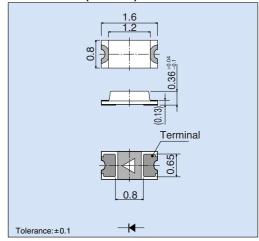
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr	Storage temperature T _{stg} (C)	
SMLE12BC7T	Blue	66	00	100	5	20 to . 05	-40 to +100	
SMLE12EC6T	Green	68	20	100		-30 to +85		

^{*:}Duty ≦1/10, 1kHz.

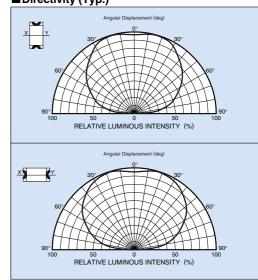
■ Electrical Optical Characteristics (Ta=25°C)

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

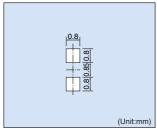
■Dimensions (Unit:mm)



■ Directivity (Typ.)

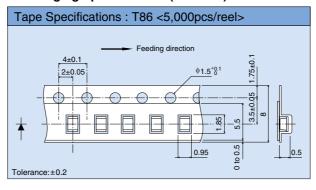


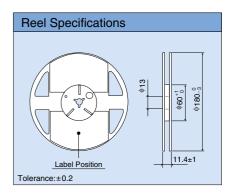
■Recommended Pad Layout



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)





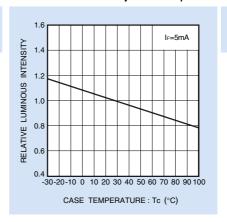
■Electrical Characteristic Curves

Forward Current - Forward Voltage

100.0 Ta=25°C Ta=25°C

SMLE12BC7T SMLE12EC6T

Relative Luminous Intensity - Case Temperature

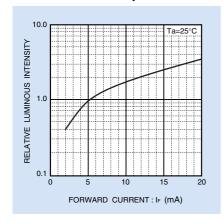


SMLE12BC7T SMLE12EC6T

SMLE12BC7T

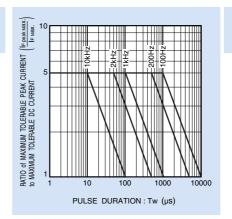
SMLE12EC6T

Relative Luminous Intensity - Forward Current

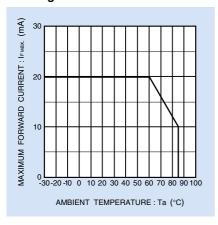


SMLE12BC7T SMLE12EC6T

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



SMLE12BC7T SMLE12EC6T

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ROHM CO., LTD. 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan

FAX: +81-75-315-0172

Appendix1-Rev2.0

TEL:+81-75-311-2121

