Standard Type   Back-fire chip LEDs(Reverse package)

SML-810 Series

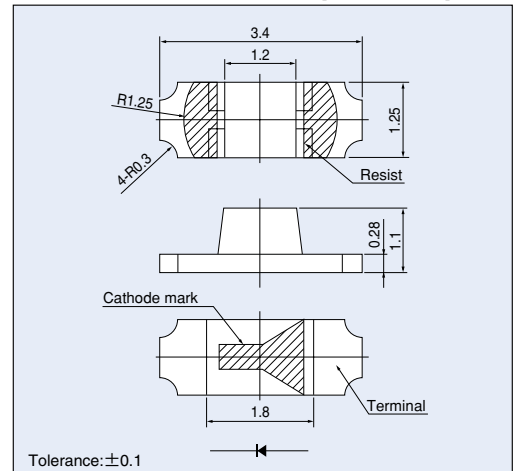| Package Size （mm）	Green
	GaP
	570nm
3412 (1305) 3.4×1.25 t=1.1	
	SML-810MT

■ Absolute Maximum Ratings （Ta=25℃）

Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current ＊I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (℃)	Stotage temperature T_{stg} (℃)
SML-810MT	Green	65	25	60	4	-30 to +85	-40 to +85

＊I_{FP} measured under duty ≦1/ 5,pulse width ≦1ms.

■ Electrical Optical Characteristics （Ta=25℃）

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength			Brightness I_V		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Peak λp Typ. (nm)	Half-wave Δλ Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML-810MT	Transparent Clear	2.2	20	100	4	570	40	20	5.6	16	20

■ External Dimensions （Unit : mm）

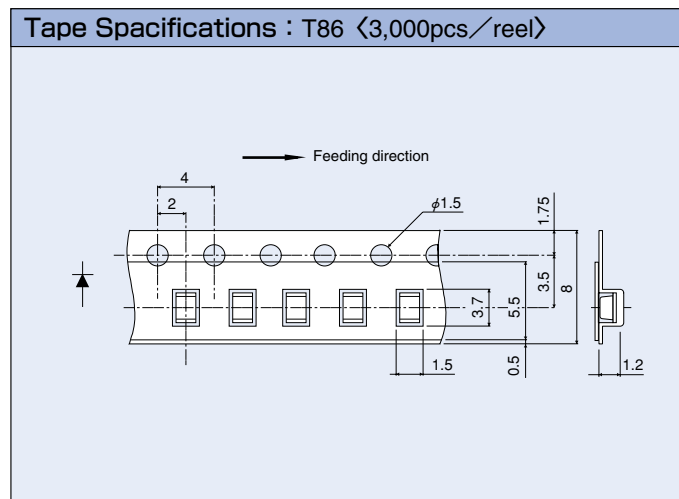Tolerance:±0.1

■ Directivity

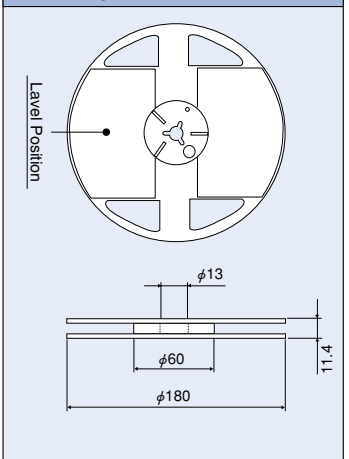(Typ.)
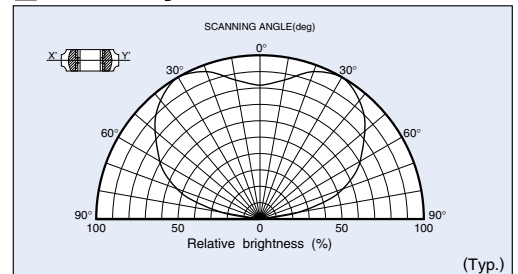
■ Recommemded Pad Layout
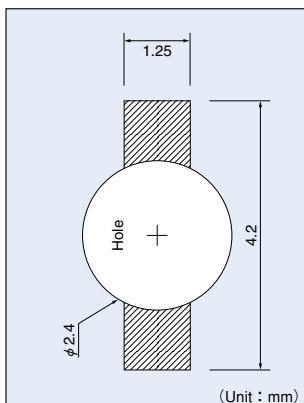
（Unit : mm）

The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.
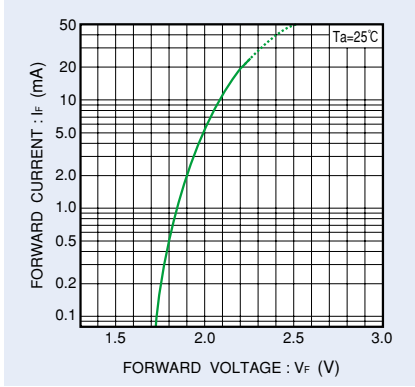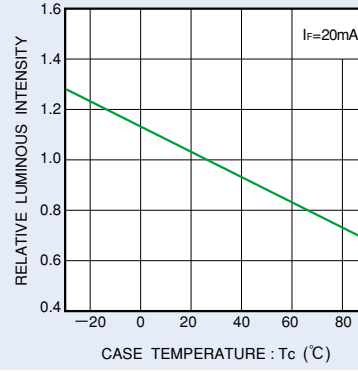
■ Packaging Spacifications （Unit : mm）

Tape Spacifications : T86 〈3,000pcs／reel〉

Reel Spacifications

■ Electrical Characteristic Curves

Forward Current - Forward Voltage

SML-810MT

Ta=25℃

FORWARD CURRENT : IF (mA)

FORWARD VOLTAGE : VF (V)

Relative Luminous Intensity - Case Temperature

SML-810MT

IF=20mA

RELATIVE LUMINOUS INTENSITY

CASE TEMPERATURE : Tc (℃)

Relative Luminous Intensity - Forward Current

SML-810MT

f=1kHz

DC

DF=50%

20%

15%

10%

5%

RELATIVE LUMINOUS INTENSITY

PEAK FORWARD CURRENT : IF peak (mA)
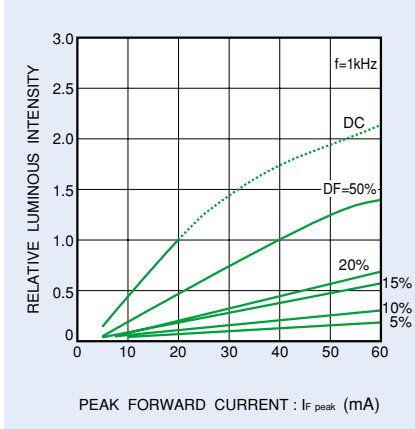
Ratio of Maximum Tolerable Peak Current - Pulse Duration

SML-810MT

50kHz 20kHz 10kHz 5kHz 2kHz 1kHz 500Hz 200Hz 100Hz

RATIO of MAXIMUM TOLERABLE PEAK CURRENT (IF peak max. / IF max.) to MAXIMUM TOLERABLE DC CURRENT

PULSE DURATION : Tw (μs)

Derating

SML-810MT

MAXIMUM FORWARD CURRENT : IF Max. (mA)

AMBIENT TEMPERATURE : Ta (℃)
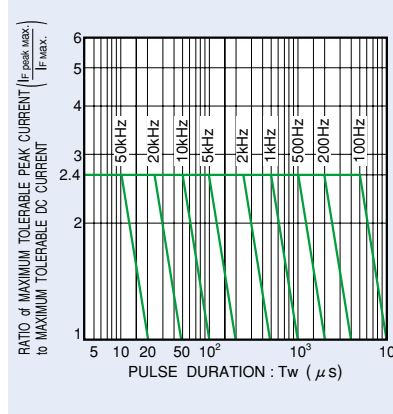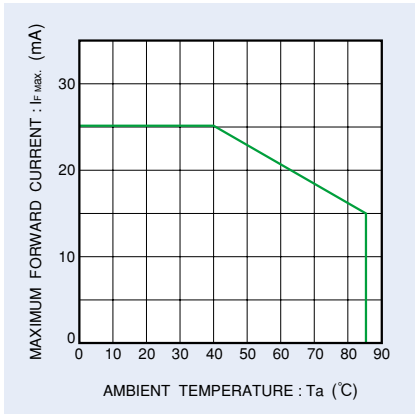
Notes

● No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.

● The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.

● Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.

● Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.

● Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by

● ROHM CO., LTD. is granted to any such buyer.

● Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.
In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.