

SML0603-2CW-TR

Cool White

Surface Mount LED

1.6 × 0.8 × 0.8 mm Chip LED

120° viewing angle

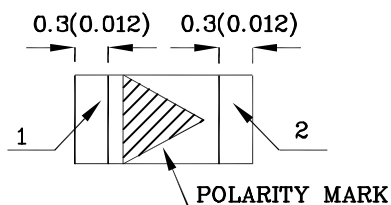
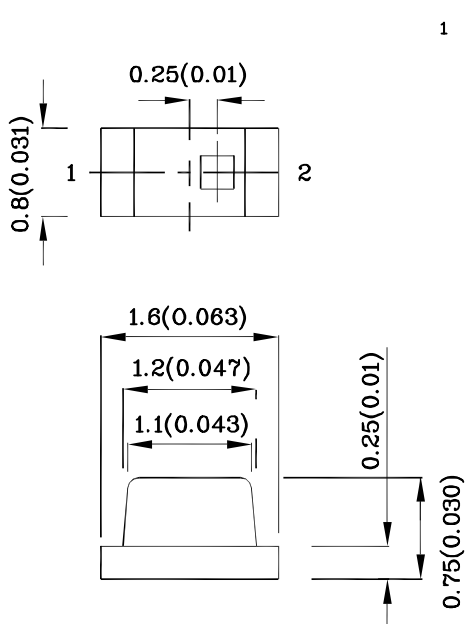
DWG BY:
SL / GP
08-03-07

R&D:
LUV
03-30-17

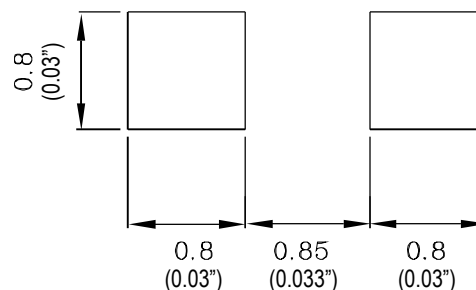
QA:
EE
03-31-17

MFG:
LD
03-31-17

REVISION LTR: A
REF. ECR# 032717-MM01
03-28-17



❖ Recommended Soldering Pattern
 (Units : mm; Tolerance: ± 0.1)



Features

- Ideal for indication light on hand held products
- Long life and robust package
- RoHS compliant
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3



ITEM	MATERIALS
Resin (mold)	Epoxy
Emitting material	InGaN
Lens color	Yellow Fluorescent
Emitting color	White

NOTES:

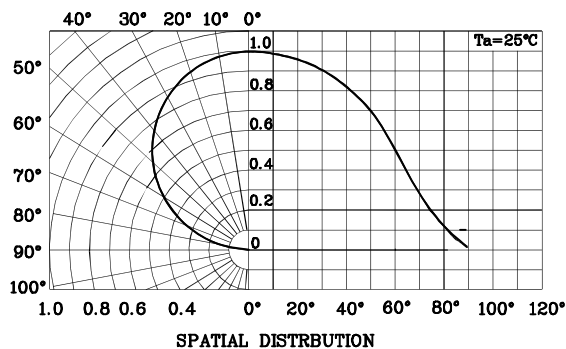
1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute maximum ratings
(T_A=25°C)

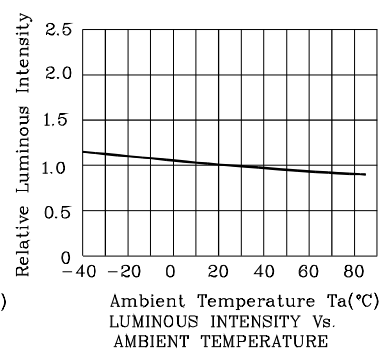
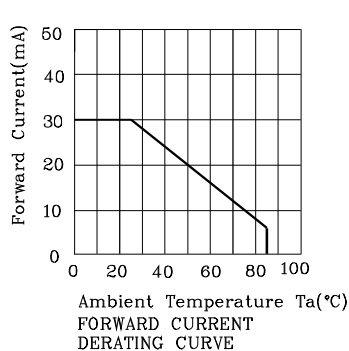
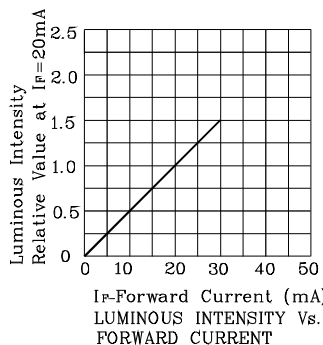
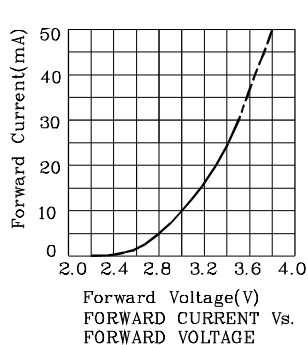
Parameter	Symbol	Value	Unit
Forward current	I _f	30	mA
Reverse voltage	V _r	5	V
Power dissipation	P _d	120	mW
Operating temperature range	T _{op}	-40 ~+85	°C
Storage temperature range	T _{stg}	-40 ~+85	°C
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse width	I _{fs}	100	mA

Electro-optical characteristics
(T_A=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
CIE Coordinates	I _f =20mA	X	--	0.31	--	--
		Y	--	0.31	--	
Forward voltage	I _f =20mA	V _f	--	3.3	4.0	V
Luminous intensity	I _f =20mA	I _v	450	597	--	mcd
Viewing angle at 50% I _v	I _f =20mA	2θ 1/2	--	120	--	Deg
Reverse current	V _r =5V	I _r	--	--	50	μA

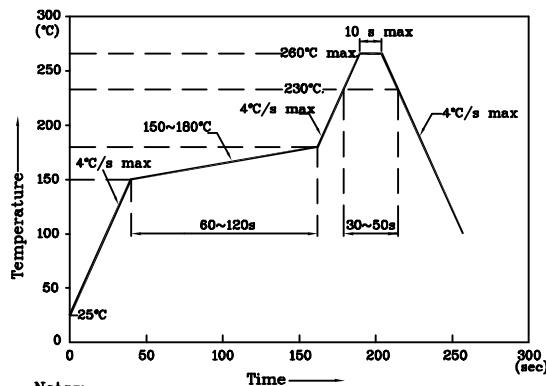


❖ FWS



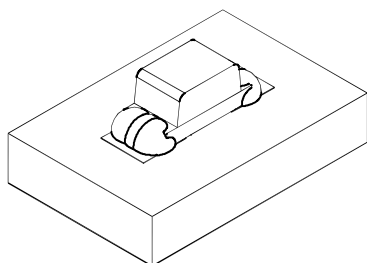
LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

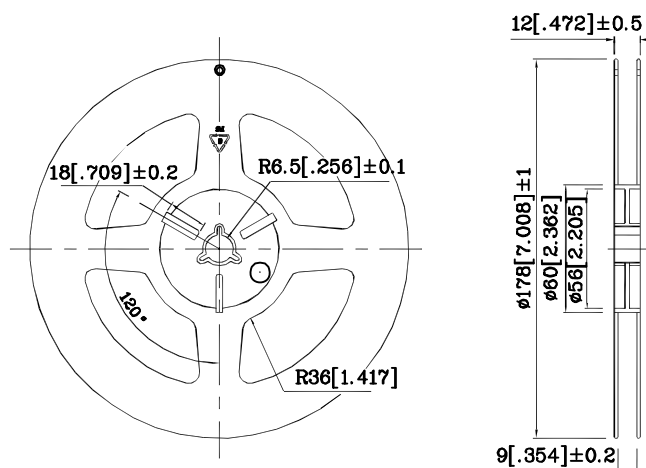


- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C~260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions

- ❖ The device has a single mounting surface.
 The device must be mounted according to the specifications.



- ❖ Reel Dimension



- ❖ Tape Specification (Units : mm)

