

UNCONTROLLED DOCUMENT

SC:0.10

PART NUMBER

REV.

SML-LXL1307PGC-PK

PRELIMINARY IN P/N DIR

Ø1.60 [Ø0.063] POLARITY MARK

1.60 [0.063]

ANODE CATHODE

R0.80 [R0.031]

1.80 [0.071]

0.25 [0.010]

3.20 [0.126]

0.50 [0.020]
(2 PLS.)

4.00 [0.157]

2.00 [0.079]

Ø1.55 [Ø0.061]

1.75 [0.069]

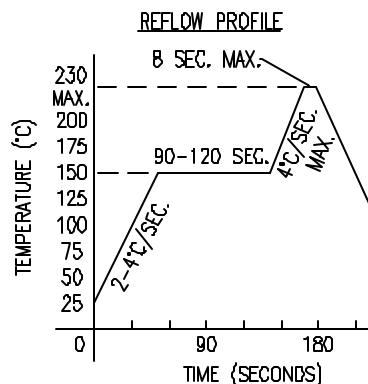
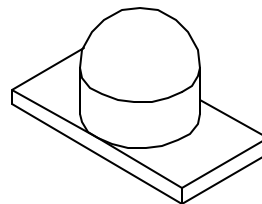
8.00 [0.315]

3.50 [0.138]

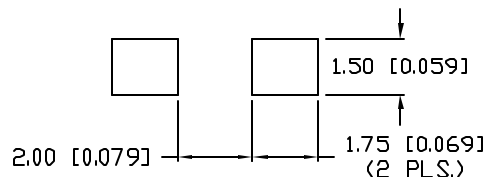
TOP TAPE

TAPE FEED DIRECTION

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005), LEAD SIZE=±0.05 (0.002), LEAD LENGTH=±0.75 (±0.030), MIN.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION



RECOMMENDED SOLDER PAD LAYOUT



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		555		nm	
FORWARD VOLTAGE		2.2	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		100		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		50		2x theta	
EMITTED COLOR:	PURE GREEN				
EPOXY LENS FINISH:	WATER CLEAR				

X= .37 - .38 +/- .01

Y= .60 - .615 +/- .01

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	160	mW
DERATE FROM 25°C	-1.6	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

* $t < 10\mu\text{s}$

NOTES:

- 2,000 PIECES PER REEL.
- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

CAUTION: MOISTURE SENSITIVE DEVICE
1. SHELF LIFE IN SEALED BAG:
12 MONTHS AT $<40^\circ\text{C}$ AND $<30\%$ RELATIVE HUMIDITY (RH).
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE
MOUNTED WITHIN 48 HOURS OR STORED AT $<30\%$ RH.

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3.2mm x 1.6mm PCB SURFACE MOUNT LED,
555nm PURE GREEN LED,
WATER CLEAR DOME LENS, TAPE AND REEL.

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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SCALE: N/A