



We Tame Photons to Work for You!



Products > LEDs > Surface Mount > SOT-23 Package > Half Moon Solder Terminals

**Features / Options**

**Applications / Uses**



- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

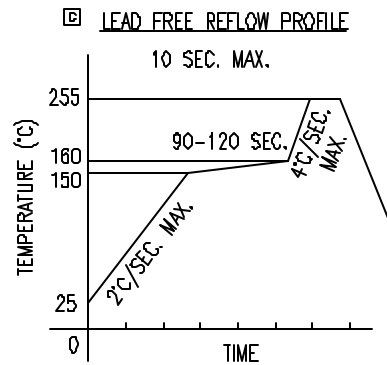
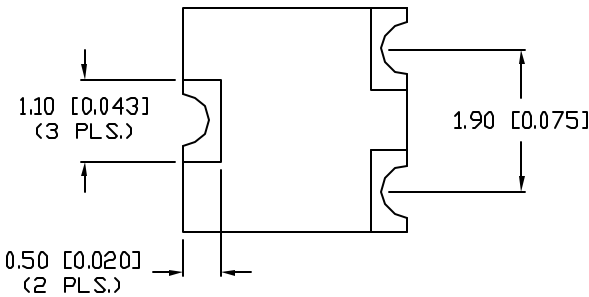
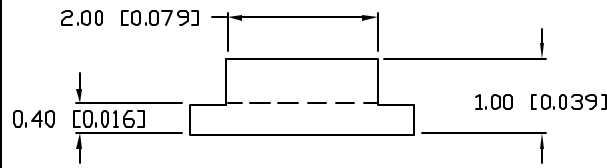
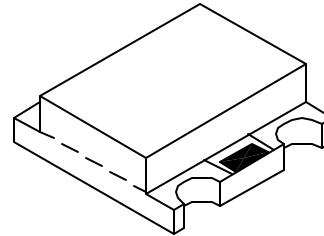
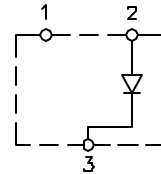
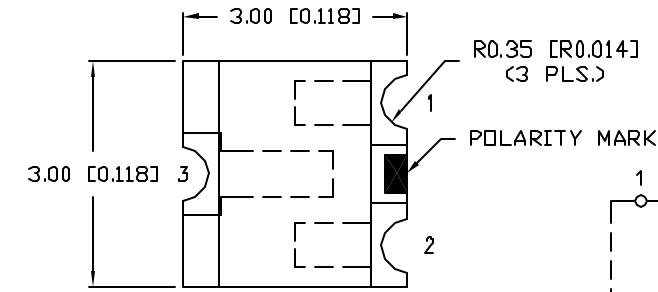
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SML-LX15AC-RP-TR	STANDARD	GaAsP	Amber	605	Clear	2.0	10	140		—
SML-LX15AC-TR	STANDARD	GaAsP	Amber	605	Clear	2.0	10	140		—
SML-LX15AGC-RP-TR	STANDARD	GaAsP		605	Clear	2.0/2.2	10	140		—
SML-LX15AGC-TR	STANDARD	GaAsP	Amber/Green	605	Clear	2.0/2.2	10	140		—
SML-LX15AYC-RP-TR	STANDARD	GaAsP	Amber/Green	605	Clear	2.0/2.1	10	140		—
SML-LX15AYC-TR	STANDARD	GaAsP	Amber/Yellow	605	Clear	2.0/2.1	10	140		—
SML-LX15GC-RP-TR	STANDARD	GaP	Green	565	Clear	2.1	10	140		—
SML-LX15GC-TR	STANDARD	GaP	Green	565	Clear	2.1	10	140		—
SML-LX15GGC-RP-TR	STANDARD	GaP	Green	565	Clear	2.2	10	140		—
SML-LX15GGC-TR	STANDARD	GaP	Green/Green	565	Clear	2.2	10	140		—

UNCONTROLLED DOCUMENT

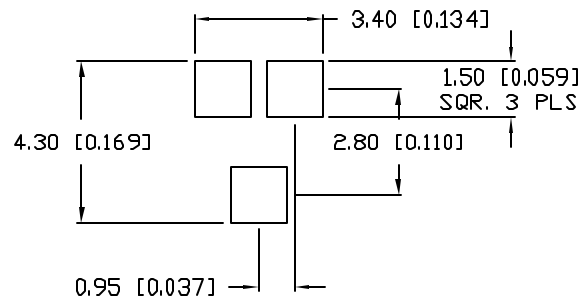
PART NUMBER  
SML-LX15GC-TR

REV.  
E



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED PAD LAYOUT



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

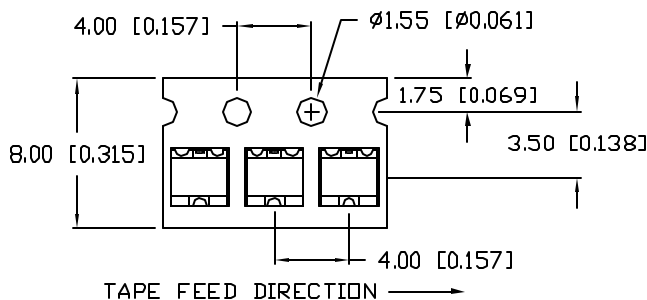
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.2	2.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		10		mcad	$I_f=20\text{mA}$
VIEWING ANGLE		140		$2x$ theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C

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

TAPE SPEC DETAIL



TAPE FEED DIRECTION →

NOTES:

1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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

UNCONTROLLED DOCUMENT

REV. E	PART NUMBER SML-LX15GC-TR
SOT-23 REPLACEMENT, SURFACE MOUNT LED, 565nm GREEN LED, WATER CLEAR LENS, TAPE AND REEL	

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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.

DRAWN BY: jc	CHECKED BY:	APPROVED BY:	DATE: 11.28.06
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			SCALE: N/A