



We Tame Photons to Work for You!



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

**Features / Options**

**Applications / Uses**

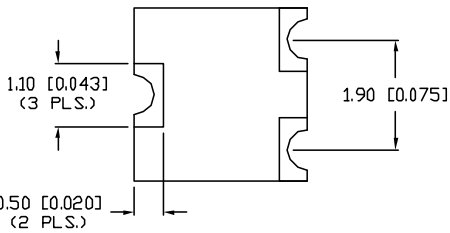
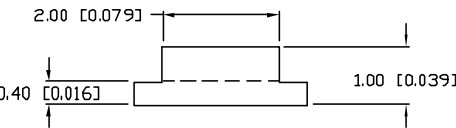
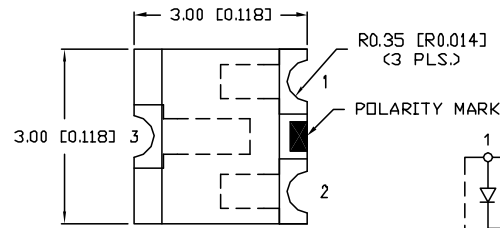


- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

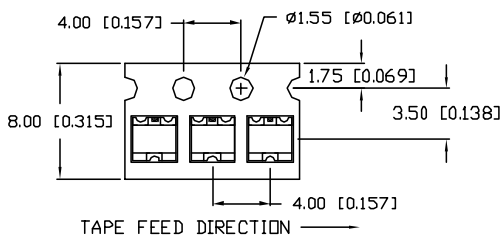
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

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		—

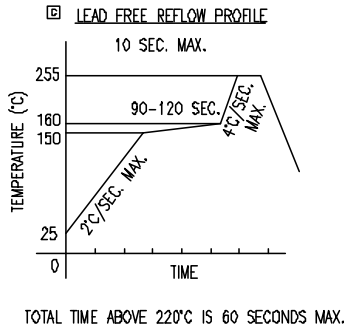
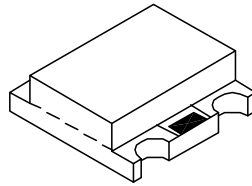
UNCONTROLLED DOCUMENT



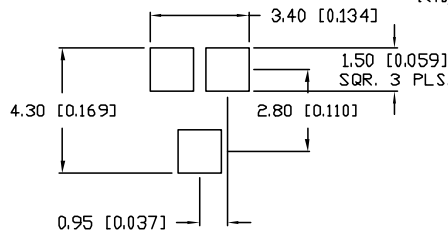
TAPE SPEC DETAIL



\*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).



RECOMMENDED PAD LAYOUT



PART NUMBER		REV.
SML-LX15GC-RP-TR		E
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10967.	3.14.03
B	E.C.N. #11010.	7.3.03
C	E.C.N. #11148.	11.30.05
D	E.C.N. #11361.	11.28.06
E	E.C.N. #11501.	05.02.08

ELECTRO-OPTICAL CHARACTERISTICS T <sub>A</sub> =25°C I <sub>f</sub> =20mA					
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.1	2.8	V <sub>f</sub>	I <sub>f</sub> =100µA
REVERSE VOLTAGE	5.0			V <sub>r</sub>	I <sub>f</sub> =20mA
AXIAL INTENSITY		10		mcd	
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*	180	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C

NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS

UNCONTROLLED DOCUMENT

REV. E	PART NUMBER SML-LX15GC-RP-TR	<p>CONFIDENTIAL INFORMATION</p> <p>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.</p> <p>RELIABILITY NOTE</p> <p>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.</p>	
SOT-23 REPLACEMENT, SURFACE MOUNT LED, 565nm GREEN LED, REVERSE POLARITY, WATER CLEAR LENS, TAPE AND REEL		<p>DRAWN BY: JC</p> <p>CHECKED BY:</p> <p>APPROVED BY:</p>	<p>DATE: 2.21.01</p> <p>PAGE: 1 OF 1</p> <p>SCALE: N/A</p>