



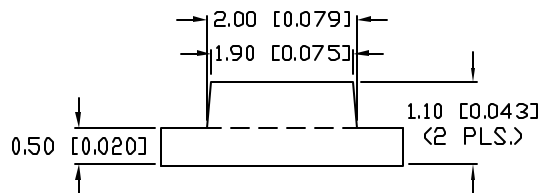
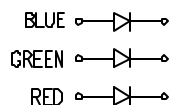
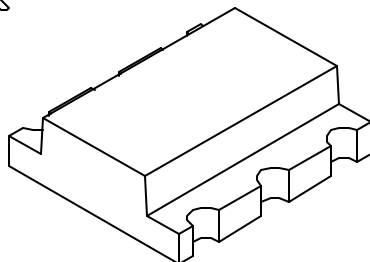
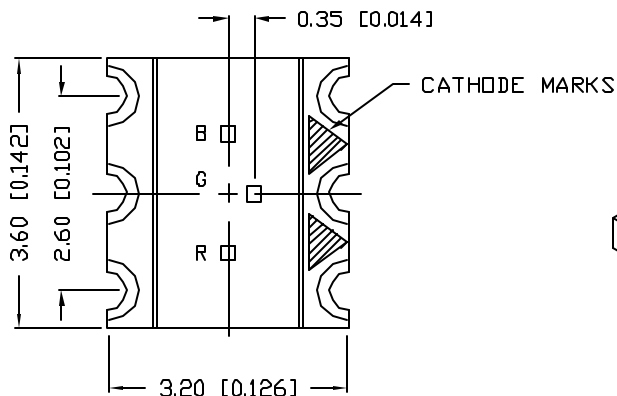
**THE DATASHEET OF  
SML-LX3632SISUGSBC**



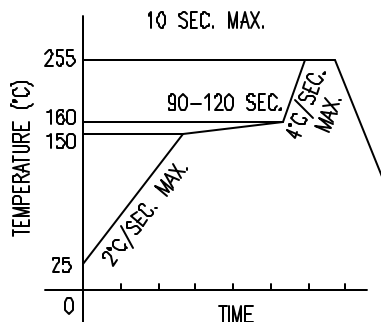
UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SML-LX3632SISUGSBC		C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10967.	3.14.03
B	E.C.N. #11053.	11.12.03
C	E.C.N. #11148.	12.15.04

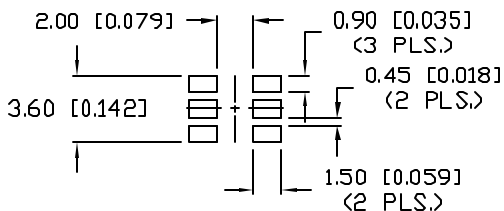


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



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

PARAMETER	RED	GREEN	BLUE	UNITS	TEST COND
PEAK WAVELENGTH	636	574	430	nm	
FORWARD VOLTAGE (TYP.)	2.0	2.2	3.5	$V_f$	
FORWARD VOLTAGE (MAX.)	2.4	2.6	4.5	$V_f$	
REVERSE VOLTAGE	5.0	5.0	5.0	$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY	75	60	50	mcad	$I_f=20\text{mA}$
VIEWING ANGLE	120	120	120	2x theta	
LED POSITION:	1	2	3		

EPOXY LENS FINISH: WATER CLEAR

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	160/160/70	mA
STEADY CURRENT	(R/G/B)	25/25/30	mA
POWER DISSIPATION		60/60/140	mW
DERATE FROM 25°C	(R/G/B)	-1.2/-1.2/-1.6	mW/°C
OPERATING, STORAGE TEMP.		-40 TO +85	°C
SOLDERING TEMP.		+260	°C
2.0mm FROM BODY			3 SEC. MAX

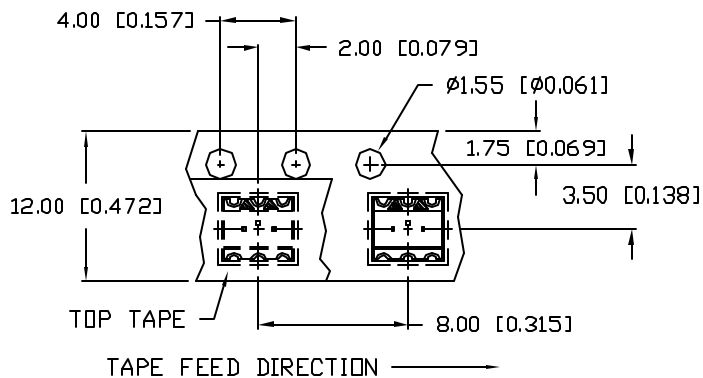
\*  $t < 10\mu\text{s}$

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE SPROCKET HOLE.

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

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 MAX=+0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
C	SML-LX3632SISUGSBC
3.2 x 3.6mm SURFACE MOUNT LED, TRI COLOR, SUPER INTENSITY RED, SUPER ULTRA GREEN, SUPER BLUE, 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.

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GB			6.4.02
			PAGE: 1 OF 1
			SCALE: N/A

## Looking for pricing, stock, or lifecycle information?

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- ⊖ [Lumex Opto/Components Inc. Information](#)

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- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management