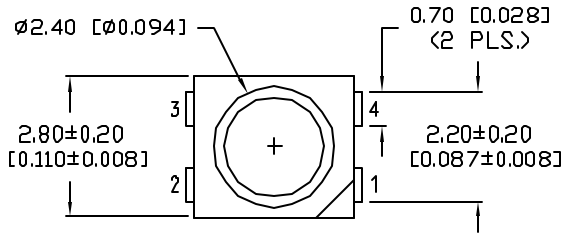
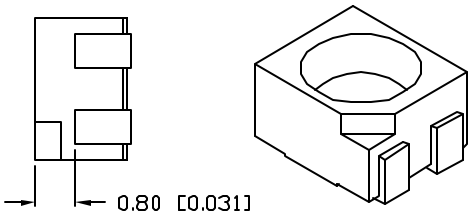
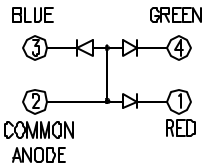
UNCONTROLLED DOCUMENT

PART NUMBER	REV.
SML-LX2832SISUGSBC	A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10967.	3.14.03

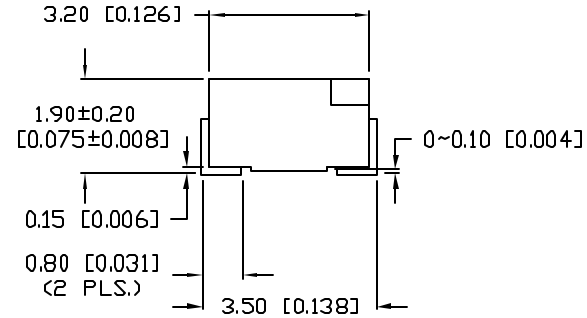




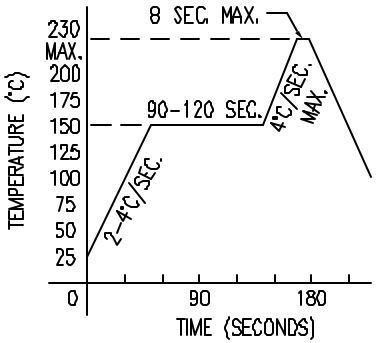


ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C I_f=20mA

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_r=100µA
AXIAL INTENSITY	80	60	60	mcd	I_f=20mA
VIEWING ANGLE	120	120	120	2x theta	
LED POSITION:	1	2	3		
EPOXY LENS FINISH: WATER CLEAR					



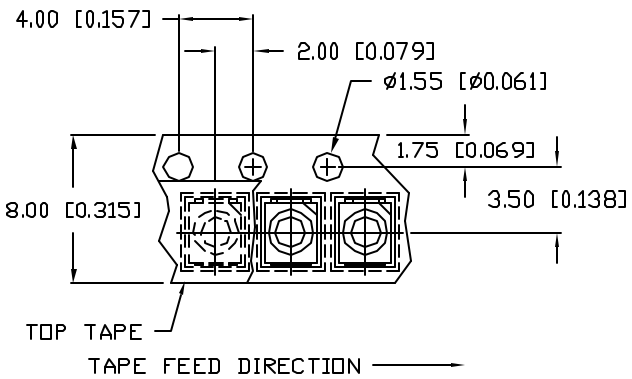
REFLOW PROFILE



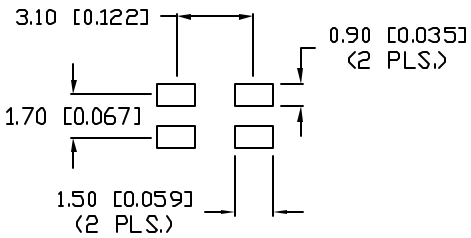
LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	160/160/100	mA
STEADY CURRENT	(R/G/B)	25/25/30	mA
POWER DISSIPATION		120	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING TEMP.		-40 TO +85	°C
STORAGE TEMP.		-40 TO +85	°C

* t<10µS



RECOMMENDED SOLDER PAD LAYOUT



NOTES:

1. 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.

A CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

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*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

REV.	PART NUMBER
A	SML-LX2832SISUGSBC

2.8mm x 3.2mm SURFACE MOUNT WITH REFLECTOR CUP, 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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			SCALE: N/A