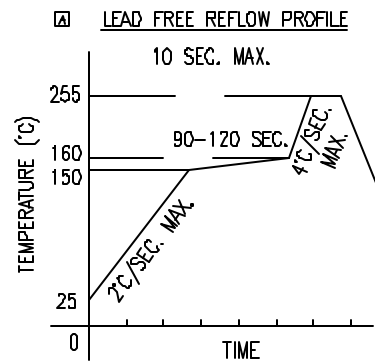
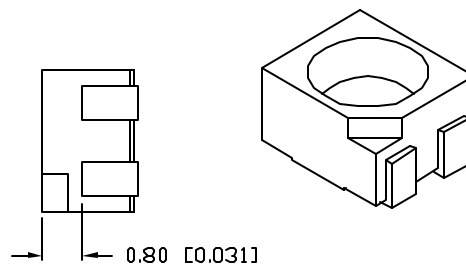
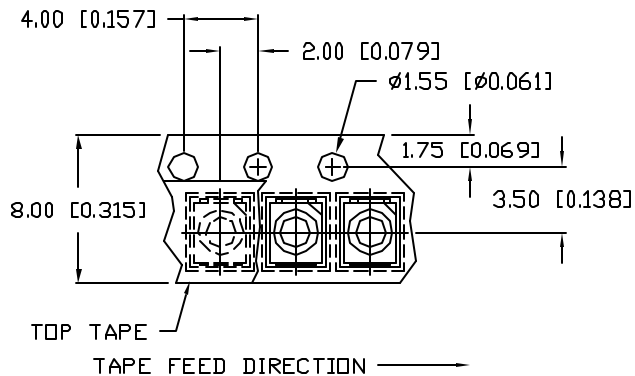
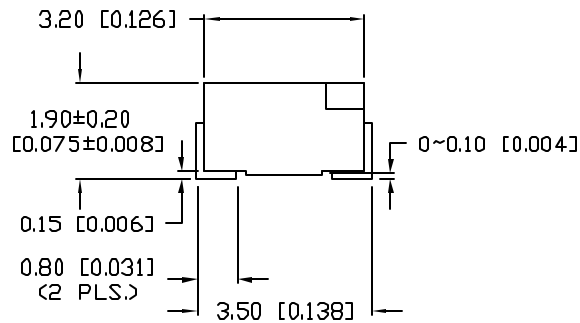
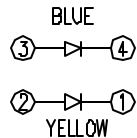
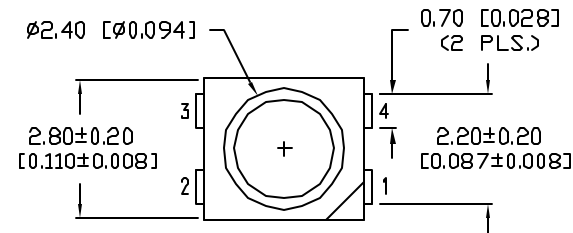
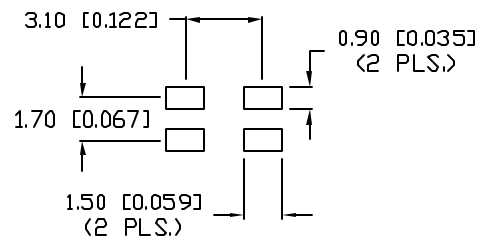


UNCONTROLLED DOCUMENT



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT

PART NUMBER
SML-LX2832SYUSBCTRREV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	2.8.05

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		590 (YELLOW)		nm	
		470 (BLUE)		nm	
FORWARD VOLTAGE (Y/B)		2.0/3.5	2.6/4.0	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (Y/B)		280		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		120		2x theta	
EMITTED COLOR:		YELLOW/BLUE			
EPOXY LENS FINISH:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(G/B)	150/160	mA
STEADY CURRENT		30	mA
POWER DISSIPATION		120	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING TEMP.		-25 TO +85	°C
STORAGE TEMP.		-30 TO +85	°C

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

NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 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.=+0.00 PRECISION MAX.=+0.00 PRECISION

REV.

A

PART NUMBER

SML-LX2832SYUSBCTR

2.8mm x 3.2mm SURFACE MOUNT WITH REFLECTOR CUP,
DUAL CHIP, AlInGaP YELLOW / InGaP BLUE LED,
WATER CLEAR LENS.

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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APPROVED BY:

DATE: 10.21.04

PAGE: 1 OF 1

SCALE: N/A