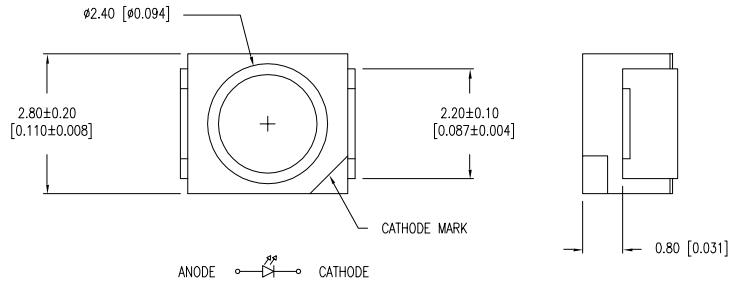


PART NUMBER	SML-LX2832UWC-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
03.14.03	E.C.N. #10967.		A
02.08.05	E.C.N. #11148.		B
10.18.07	E.C.N. #11450.		C
05.07.10	E.C.N. #11627.		D
11.09.10	E.C.N. #11677.		E



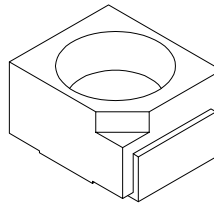
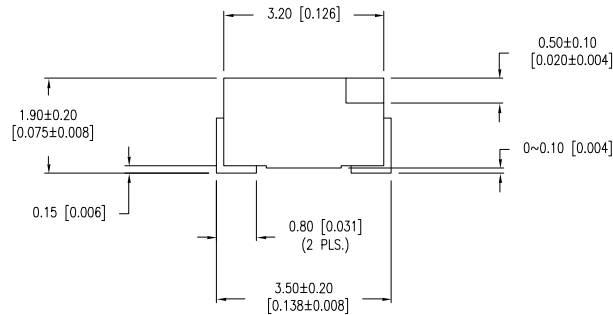
**[D]** CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS

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

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		(WHITE)		nm	
FORWARD VOLTAGE		3.3	4.0	$V_f$	$I_f=20\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_f=10\mu\text{A}$
AXIAL INTENSITY (*1)	380		1000	mcd	$I_f=20\text{mA}$
CHROMACITY X		0.31			
COORDINATES (*2) Y		0.31			$I_f=20\text{mA}$
VIEWING ANGLE		120		2x theta	
EMITTED COLOR:	WHITE				
EPOXY LENS FINISH:	WATER CLEAR				

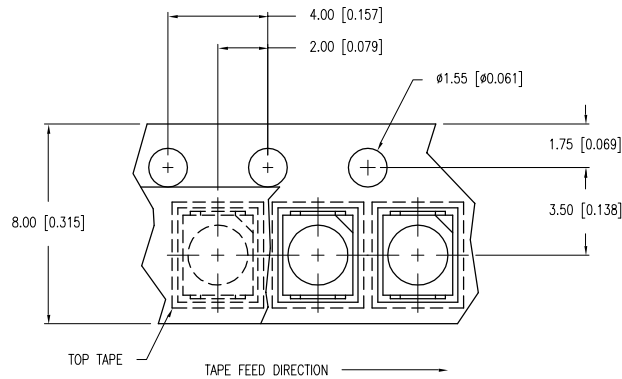
\*1. AXIAL INTENSITY TESTING CONDITION 550nm WAVELENGTH.  
\*2. THE ICI STANDARD COLORMETRIC SYSTEM.



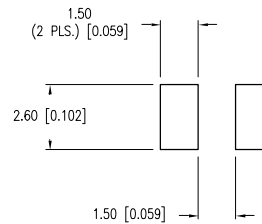
**[E] LIMITS OF SAFE OPERATION AT 25°C**

PARAMETER	SYMBOL	MAX	UNITS
PULSE FORWARD CURRENT	$I_P$	150*	mA
STEADY CURRENT	$I_F$	30	mA
POWER DISSIPATION	$P_D$	120	mW
OPERATING TEMP.	$T_{OPR}$	-40 TO +85	°C
STORAGE TEMP.	$T_{STG}$	-40 TO +85	°C

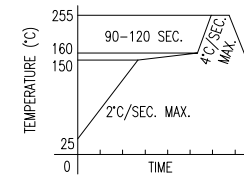
\*DUTY 1/10 PULSE WIDTH 10ms



**[C] RECOMMENDED SOLDER PAD LAYOUT**



**[B] LEAD FREE REFLOW PROFILE**  
10 SEC. MAX.



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

**NOTES:**

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

\*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 MAX.= +0.00 -DECIMAL PRECISION UNCONTROLLED DOCUMENT



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2.8mm X 3.2mm SML /W REFLECTOR, 605nm LED, WATER CLEAR LENS, 2,000 PCS PER TAPE & REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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DATE:	01.11.01	DRAWN BY:	BC
PAGE:	1 OF 1	CHKD BY:	SS
SCALE:	N/A	APRVD BY:	KF
UNIT:	mm [INCH]		