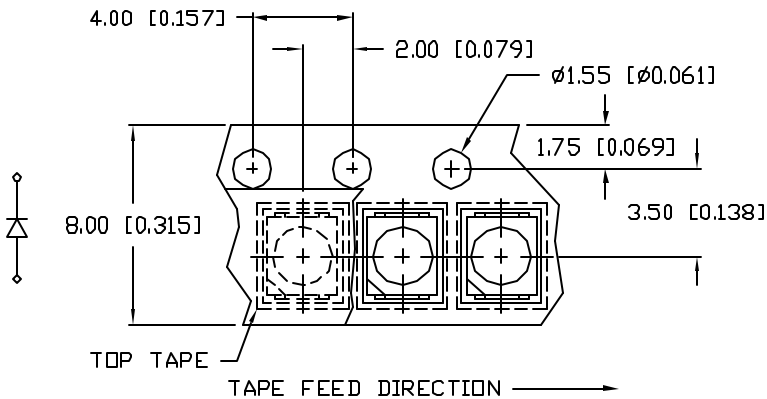
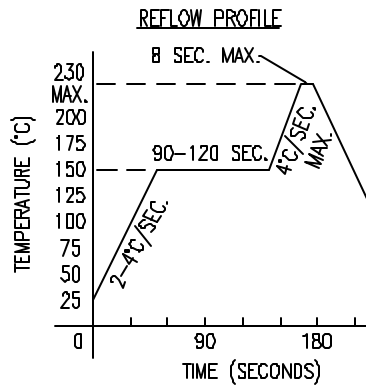
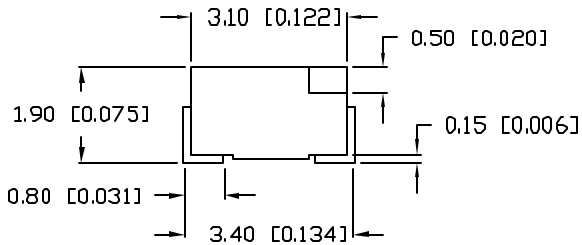
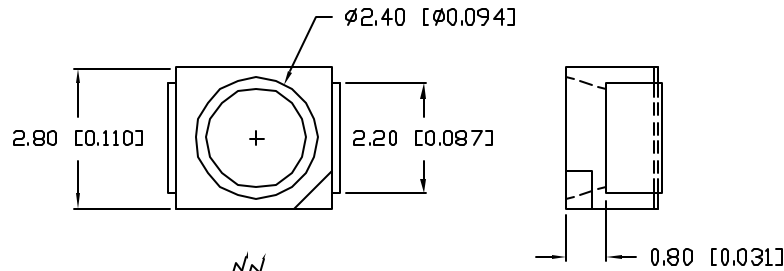
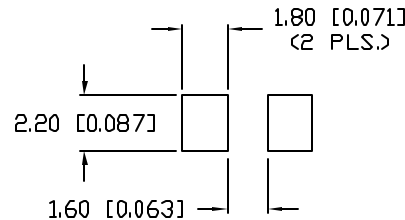


UNCONTROLLED DOCUMENT



RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER
OED-8202832C110

REV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	5.16.07

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=50\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		820		nm	
FORWARD VOLTAGE		1.6	1.8	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
RADIANT INTENSITY	3.0	6.0		mW/SR	$I_f=50\text{mA}$
HALF ANGLE		± 55		degrees	

EPOXY LENS FINISH: WATER CLEAR

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	100	mA
POWER DISSIPATION	190	mW
DERATE FROM 25°C	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING TEMP.	-20 TO +80	$^\circ\text{C}$
STORAGE TEMP.	-30 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

* $t < 100\mu\text{s}$, $t_p/T=0.01$

NOTES:

1. 1,000 PCS. PER REEL.

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

REV.
A

PART NUMBER
OED-8202832C110

CONFIDENTIAL INFORMATION
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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

2.8mm x 3.2mm SURFACE MOUNT WITH REFLECTOR,
820nm INFRARED, WATER CLEAR LENS,
1000 PIECES PER TAPE AND REEL.

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.

DRAWN BY: JC	CHECKED BY:	APPROVED BY:	DATE: 8.5.05
			PAGE: 1 OF 1
			SCALE: N/A



UNCONTROLLED DOCUMENT