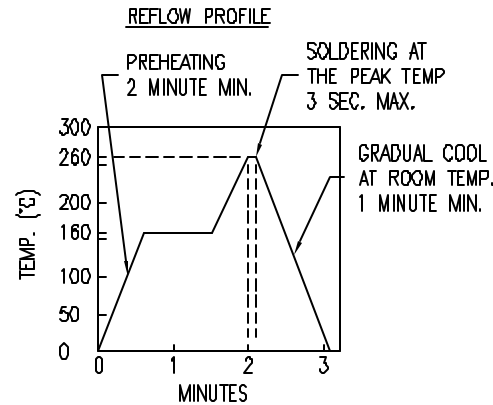
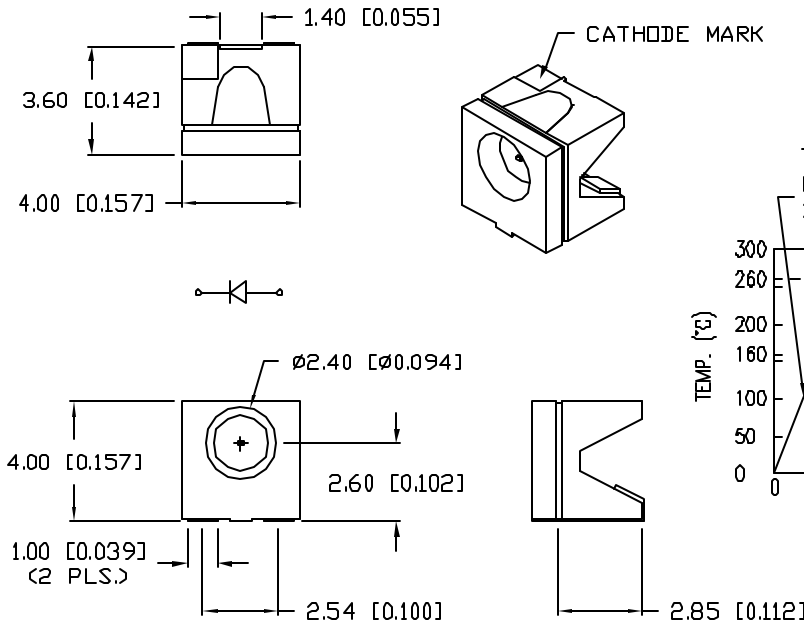


REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	5.16.07



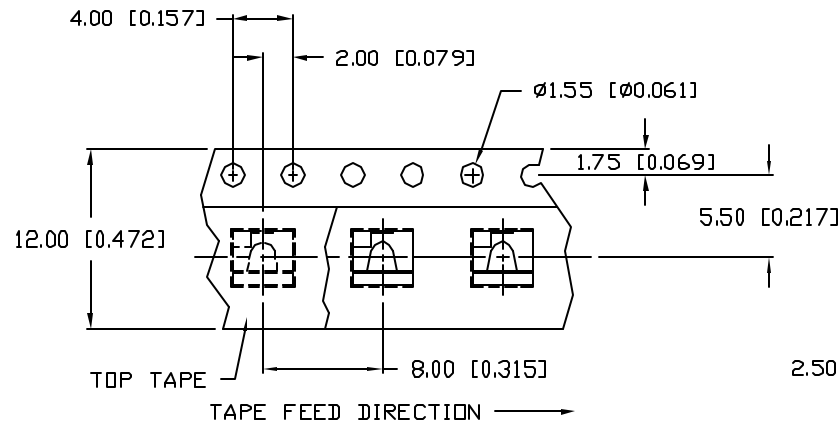
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		880		nm	
SPECTRAL BANDWIDTH		50		nm	
FORWARD VOLTAGE		1.3		V _f	$I_f=20\text{mA}$
REVERSE VOLTAGE	5.0			V _r	$I_f=100\mu\text{A}$
RADIANT INTENSITY		1.5		mW/SR	$I_f=20\text{mA}$
HALF ANGLE		±45		degrees	
EPOXY LENS FINISH: BLUE TRANSPARENT					

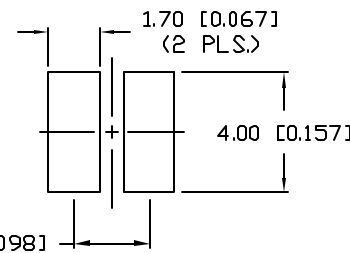
LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1200	mA
STEADY CURRENT	50	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

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



RECOMMENDED SOLDER PAD LAYOUT



NOTES:

- 500 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



*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.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

REV. A	PART NUMBER OED-CLR44B90-TR
RIGHT ANGLE BOOMERANG SURFACE MOUNT 880nm IR EMITTER, BLUE TRANSPARENT LENS.	

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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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DRAWN BY: jc	CHECKED BY:	APPROVED BY:	DATE: 5.23.05 PAGE: 1 OF 1 SCALE: N/A