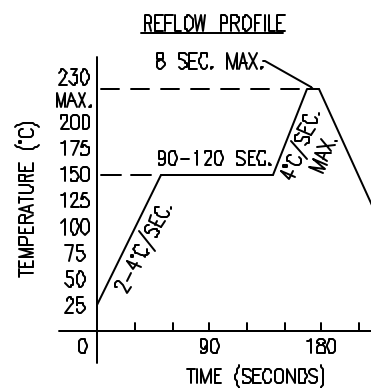
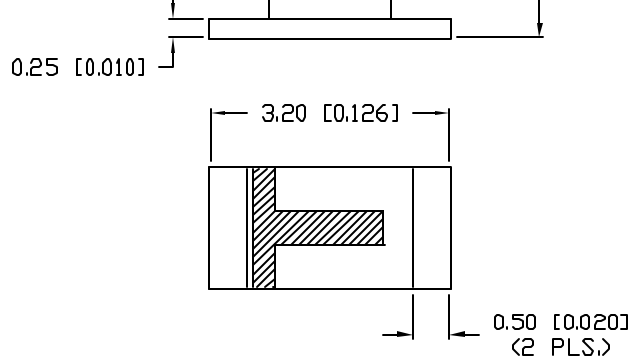
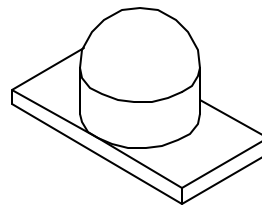
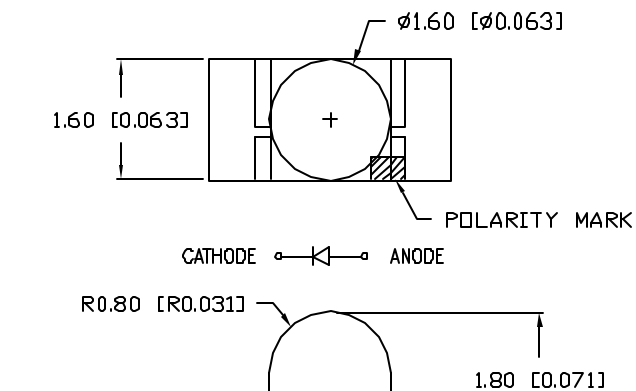
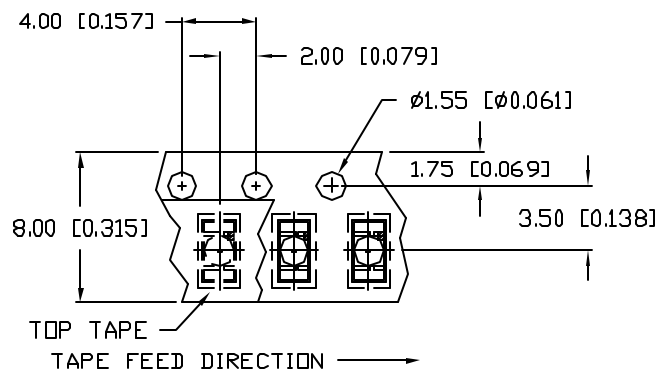
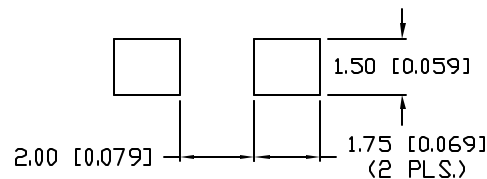


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RECOMMENDED SOLDER PAD LAYOUT



\*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

PART NUMBER		REV.
OED-CL1307C50-TR		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	5.16.07

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		880		nm	
SPECTRAL BANDWIDTH		50		nm	
FORWARD VOLTAGE		1.3		V <sub>f</sub>	$I_f=20\text{mA}$
REVERSE VOLTAGE	5.0			V <sub>r</sub>	$I_r=100\mu\text{A}$
RADIANT INTENSITY		3.2		mW/SR	$I_f=20\text{mA}$
HALF ANGLE		±25		degrees	
EPOXY LENS FINISH: WATER CLEAR					

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
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY	3 SEC. MAX	

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

NOTES:

- 2,000 PIECES PER REEL.
- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



UNCONTROLLED DOCUMENT

REV.	PART NUMBER
A	OED-CL1307C50-TR

3.2mm x 1.6mm PCB SURFACE MOUNT LED,  
880nm IR EMITTER,  
WATER CLEAR DOME 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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