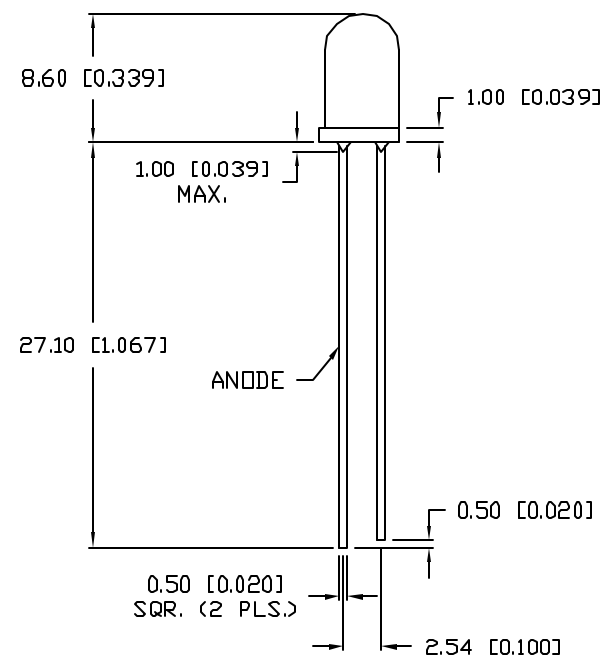
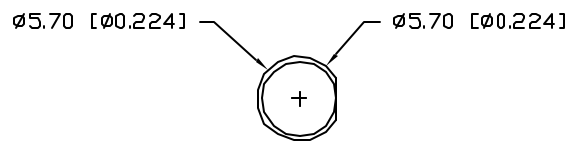


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-CL-1L2

REV.  
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	11.4.94
B	E.C.N. #10BRDR. & REDRAWN.	1.5.98
C	E.C.N. #10BRDR. & REDRAWN.	11.15.02



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		880		nm	
FORWARD VOLTAGE		1.9		$V_f$	$I_f=50\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
RADIANT INTENSITY		15		mW/SR	$I_f=50\text{mA}$
HALF ANGLE		$\pm 30$		degrees	$I_f=100\text{mA}$ , $t_p=100\mu\text{s}$ ,

EPOXY LENS FINISH: WATER CLEAR LENS

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	190	mW
DERATE FROM $25^{\circ}\text{C}$	-1.2	mW/ $^{\circ}\text{C}$
OPERATING TEMP.	-25 TO +85	$^{\circ}\text{C}$
STORAGE TEMP.	-40 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= $\pm 1$  ( $\pm 0.039$ ), XX= $\pm 0.5$  ( $\pm 0.020$ ), XXX= $\pm 0.25$  ( $\pm 0.010$ ), XXXX= $\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ), MIN=<sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION, MAX.=<sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV. C PART NUMBER OED-CL-1L2

T-5mm x 8.6 HIGH PERFORMANCE INFRARED EMITTING DIODE,  
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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