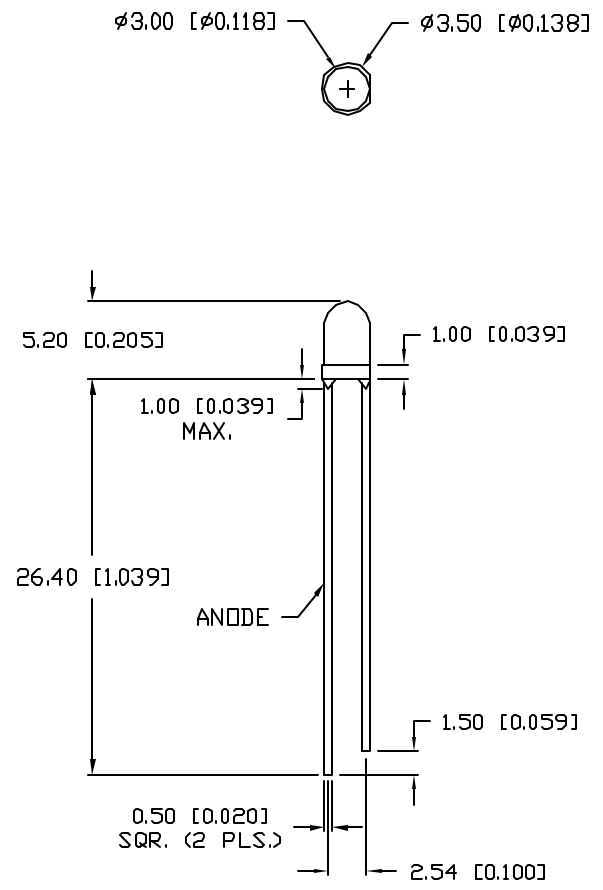


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-CL-8L

REV.  
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10382.	11.7.97
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		1.7		$V_f$	$I_f=50\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
RADIANT INTENSITY		13		mW/SR	$I_f=50\text{mA}$
HALF ANGLE		20		degrees	

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=±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= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION MAX= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION

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REV. C PART NUMBER OED-CL-8L

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T-1 (T-3mm) INFRARED EMITTING DIODE,  
HIGH PERFORMANCE, WATER CLEAR LENS.

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: GT CHECKED BY: APPROVED BY: DATE: 11.30.92  
PAGE: 1 OF 1  
SCALE: N/A