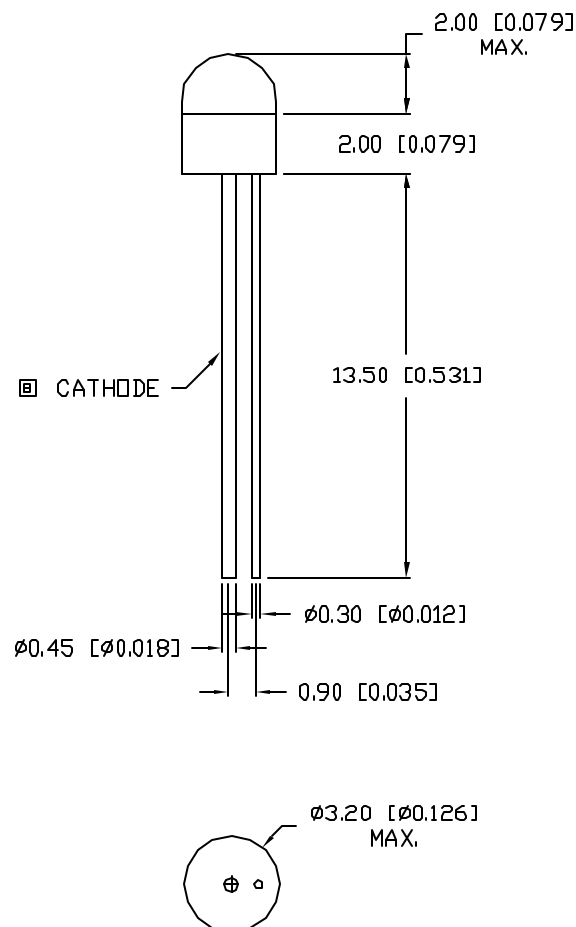


UNCONTROLLED DOCUMENT

PART NUMBER
OED-EL-1CL3REV.
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR.	1-7-98
B	E.C.N. #10593.	2-14-00
C	E.C.N. #10BRDR.	1.13.03

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	$I_f=50\text{mA}$
FORWARD VOLTAGE		2.1	2.5	V_f	$I_f=40\text{mA}$
REVERSE VOLTAGE		4.0		V_r	$I_r=10\mu\text{A}$
RADIANT INTENSITY	15	30		mW/SR	$I_f=40\text{mA}$
☐ SPECTRAL BANDWIDTH		50		nm	
HALF ANGLE		± 50		degree	
EPOXY LENS FINISH: EPOXY					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
☐ PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	60	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	-1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	-20 TO +70	$^\circ\text{C}$
STORAGE TEMP.	-30 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

* $t < 10\mu\text{s}$

*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.
CPART NUMBER
OED-EL-1CL3T-3mm (T-1) 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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DATE: 12.8.94

TM/BC

PAGE: 1 OF 1

SCALE: N/A