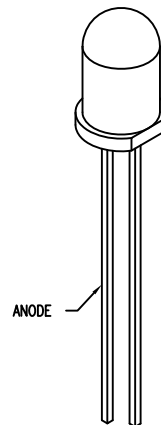
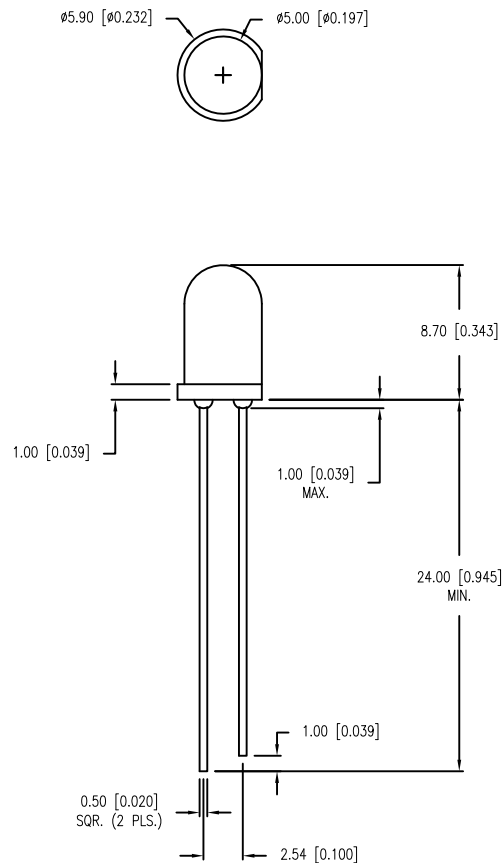


PART NUMBER	OED-EL-1L1	REV.	D
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
11.24.93	REDRAWN.		A
01.07.98	E.C.N. #10BRDR.		B
12.31.02	E.C.N. #10BRDR. & REDRAWN IN 3D.		C
03.23.09	E.C.N. #11561.		D



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	
SPECTRAL BANDWIDTH		45		nm	
FORWARD VOLTAGE		1.2	1.5	V_f	$I_f=20\text{mA}$
		1.4*	1.8*	V_f	$I_f=100\text{mA}$
		2.6*	4.0*	V_f	$I_f=1\text{A}$
REVERSE VOLTAGE			5.0	V_r	$I_r=10\mu\text{A}$
RADIANT INTENSITY	7.8	20.0		mW/SR	$I_f=20\text{mA}$
		80*		mW/SR	$I_f=100\text{mA}$
		800*		mW/SR	$I_f=1\text{A}$
HALF ANGLE		± 10.0		degrees	

EPOXY LENS FINISH: WATER CLEAR

* $t_p < 100\mu\text{s}$, $TP/T=1\%$

D LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	150	mW
DERATE FROM 25°C	- 1.2	mW/ $^{\circ}\text{C}$
OPERATING TEMP.	- 40 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

* $t_p < 100\mu\text{s}$, $tp/T=1\%$

*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 MAX.= +0.00
-0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT



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T-5mm, 940nm INFRARED EMITTING DIODE, WATER CLEAR LENS.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE: 12..20.90	DRAWN BY: --
PAGE: 1 OF 2	CHKD BY: BC
SCALE:	APRVD BY: SS
UNIT: mm [INCH]	(Pb)