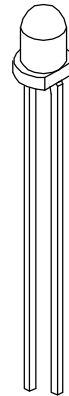
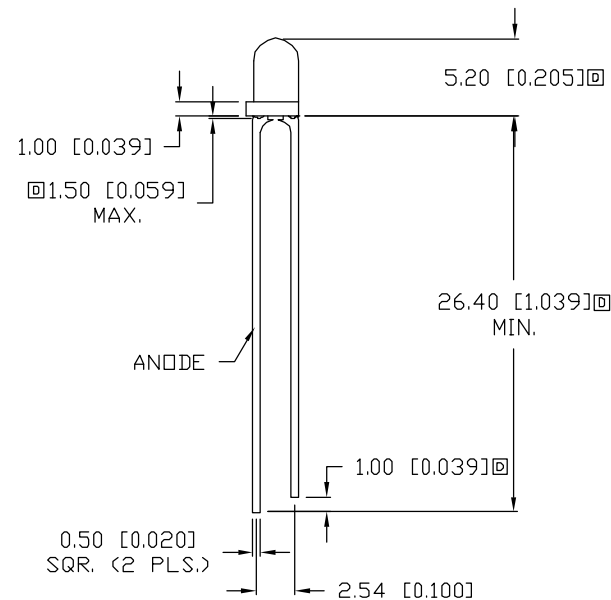
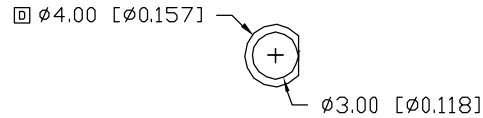


PART NUMBER  
OED-EL-8L

REV.  
D

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10247.	9.30.96
B	E.C.N. #10BRDR.	1.7.98
C	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.31.02
D	E.C.N. #11561.	3.23.09



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	4.0	5.6		mW/SR	$I_f=20\text{mA}$
		35*		mW/SR	$I_f=100\text{mA}$
		390*		mW/SR	$I_f=1\text{A}$
HALF ANGLE		$\pm 17.5$		degrees	

EPOXY LENS FINISH: WATER CLEAR

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

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	150	mW
DERATE FROM $25^\circ\text{C}$	-1.6	$\text{mW}/^\circ\text{C}$
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 -0.00, MAX= +0.00 -DECIMAL PRECISION

REV. D	PART NUMBER OED-EL-8L
T-3mm, 940nm INFRARED EMITTER, WATER CLEAR LENS.	

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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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			PAGE: 1 OF 1
			SCALE: N/A

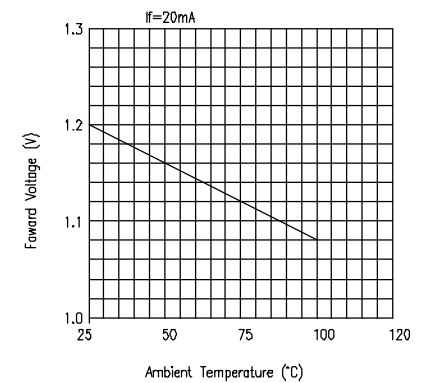
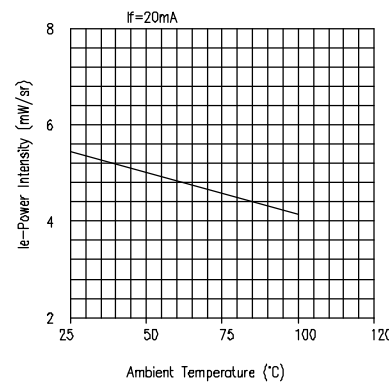
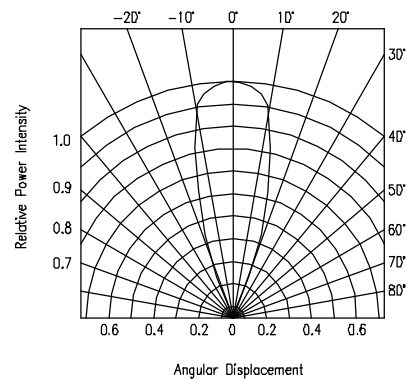
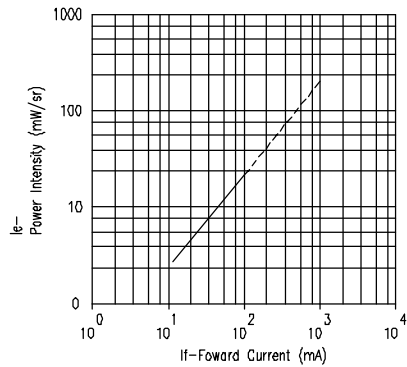
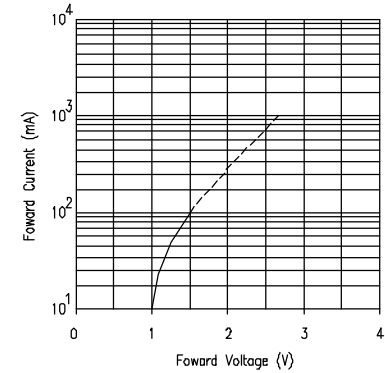
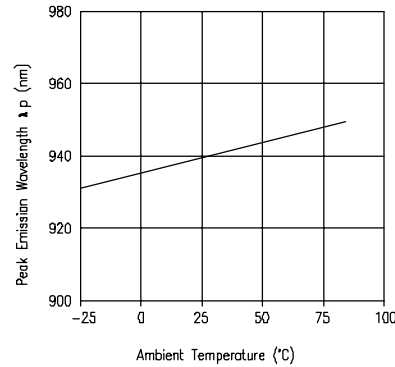
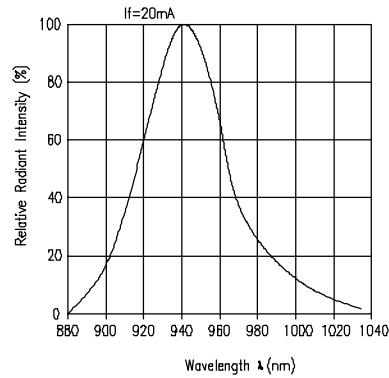
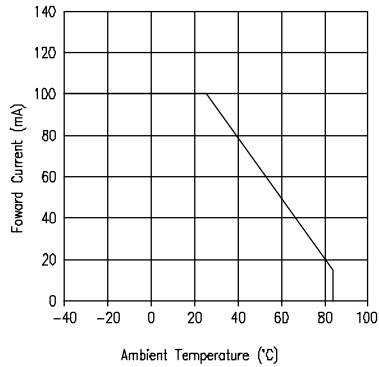
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