

PART NUMBER		REV.
OED-EL-8L		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		± 17.5		degrees	

EPOXY LENS FINISH: WATER CLEAR

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

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	-1.6	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

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

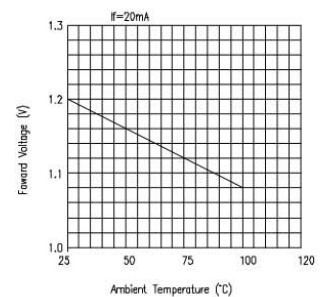
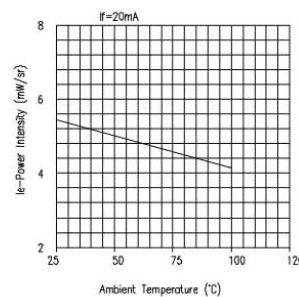
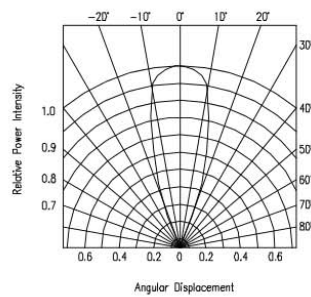
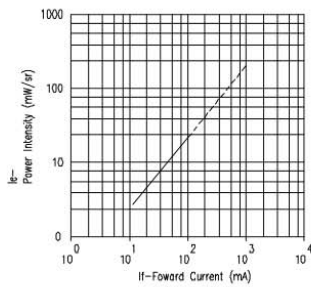
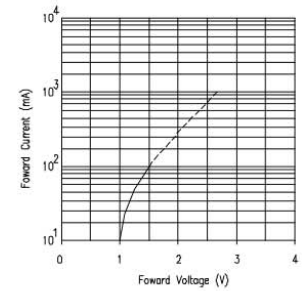
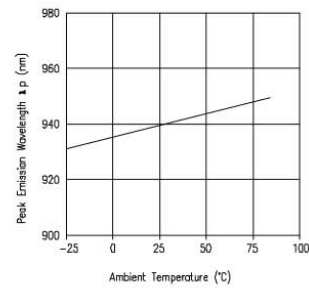
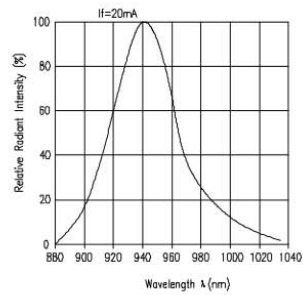
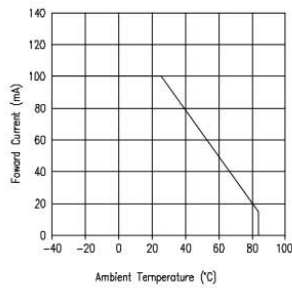


*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

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T-3mm, 940nm INFRARED EMITTER, 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.		PHONE: +1.847.359.2790	
		DRAWN BY: BC		DATE: 4.21.93	
		CHECKED BY:		PAGE: 1 OF 1	
		APPROVED BY:		SCALE: N/A	



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