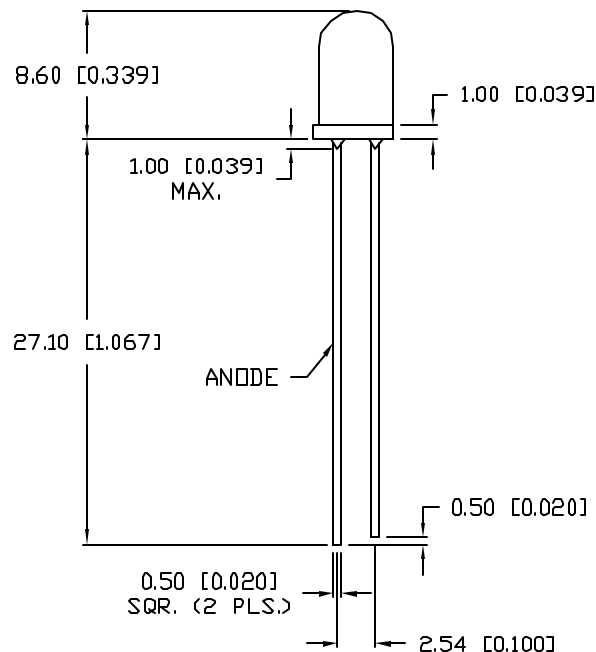


UNCONTROLLED DOCUMENT

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PART NUMBER
OED-CL-1L1

REV.
D

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	5.29.95
B	E.C.N. #10157.	4.26.96
C	E.C.N. #10BRDR.	1.5.98
D	E.C.N. #10BRDR. & REDRAWN.	11.14.02

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		880		nm	
SPECTRAL BANDWIDTH		80		nm	
FORWARD VOLTAGE		1.9		V_f	$I_f=50\text{mA}$
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
RADIANT INTENSITY		30		mW/SR	$I_f=50\text{mA}$
HALF ANGLE		± 10		degrees	
EPOXY LENS FINISH: WATER CLEAR LENS					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	190	mW
DERATE FROM 25°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

* $t_p < 100\mu\text{s}$, $t_p/T=0.01$

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*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

REV.

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PART NUMBER

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RELIABILITY NOTE

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T-5mm x 8.6 HIGH PERFORMANCE INFRARED EMITTING DIODE,
WATER CLEAR LENS.

DRAWN BY:

GT

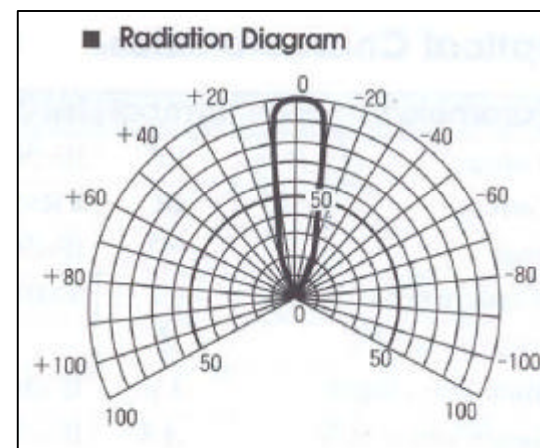
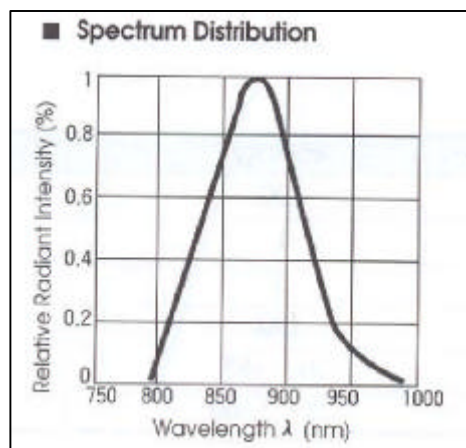
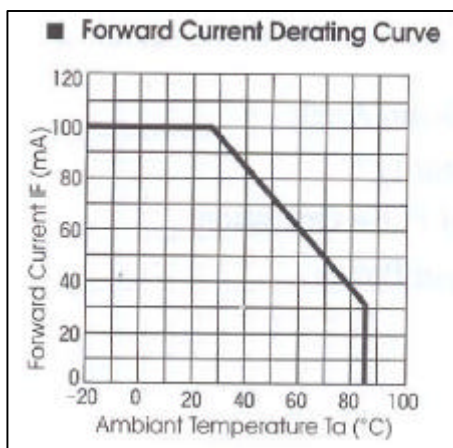
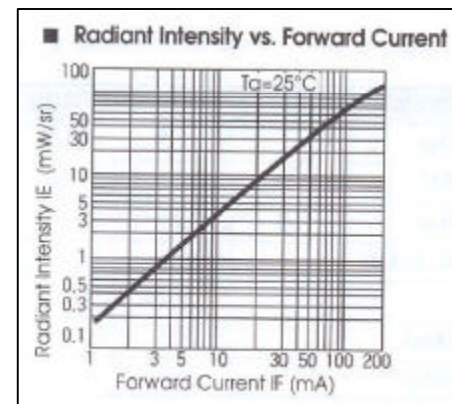
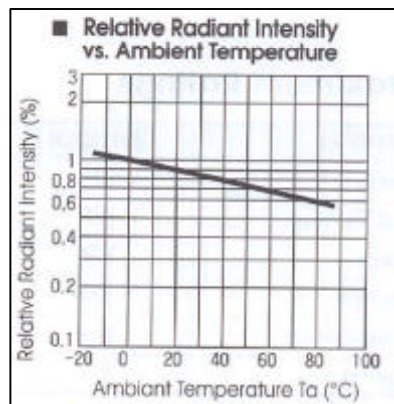
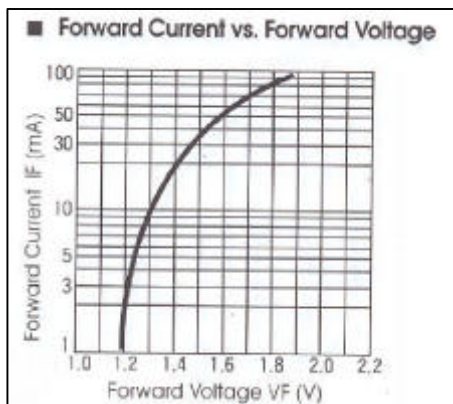
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APPROVED BY:

DATE: 5.24.90

PAGE: 1 OF 1

SCALE: N/A



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CHARTS FOR OED-CL-1L1

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