

UNCONTROLLED DOCUMENT

PART NUMBER		REV.
OED-EL5093C22		B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR.	1.7.98
B	E.C.N. #10811. & #10BRDR. & REDRAWN.	11.14.01



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	
FORWARD VOLTAGE		1.2	1.6	$V_f$	$I_f=20\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_f=10\mu\text{A}$
RADIANT INTENSITY		60		mW/SR	$I_f=20\text{mA}$
HALF ANGLE		±11		degrees	

☐ EPOXY LENS FINISH: WATER CLEAR


LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
REVERSE VOLTAGE	5	V
FORWARD CURRENT*	100	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°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), 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= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION MAX= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION

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REV. B	PART NUMBER OED-EL5093C22	<p>CONFIDENTIAL INFORMATION</p> <p>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.</p> <p>RELIABILITY NOTE</p> <p>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.</p>	 <p>290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw</p>
T-5 (T-1 3/4) INFRARED EMITTING DIODE, WATER CLEAR LENS.		<p>DRAWN BY: GT</p> <p>CHECKED BY:</p> <p>APPROVED BY:</p>	<p>DATE: 5.21.97</p> <p>PAGE: 1 OF 1</p> <p>SCALE: N/A</p>

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