

## Excellent Integrated System Limited

Stocking Distributor

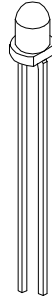
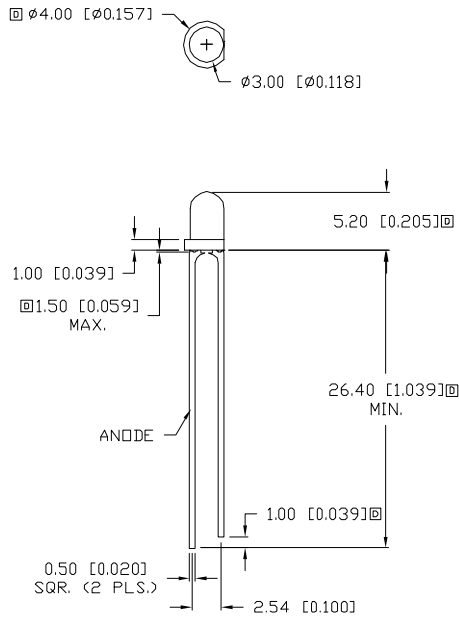
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)  
[OED-EL-8L](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

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		$\pm 17.5$		degrees	

EPOXY LENS FINISH: WATER CLEAR

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

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	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

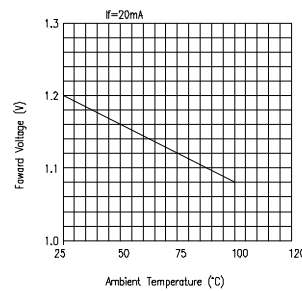
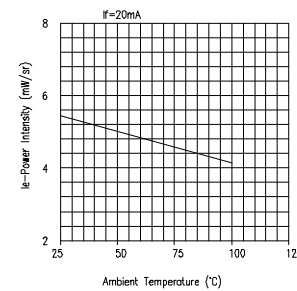
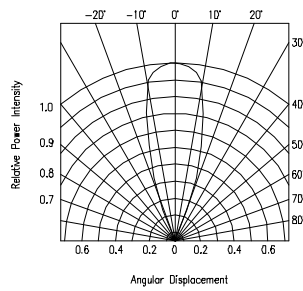
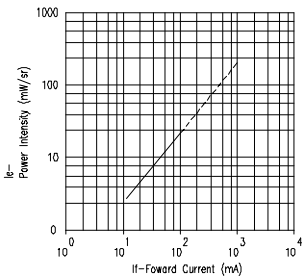
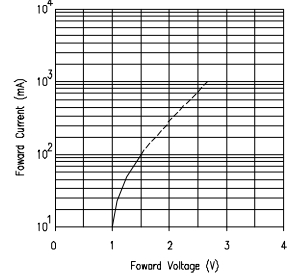
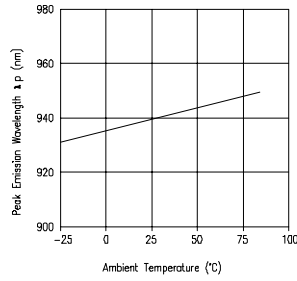
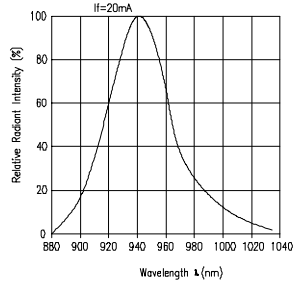
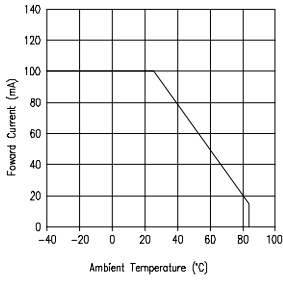
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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=<sup>+DECIMAL PRECISION</sup><sub>-0.00</sub>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

REV. D	PART NUMBER OED-EL-8L	<p><b>CONFIDENTIAL INFORMATION</b></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><b>RELIABILITY NOTE</b></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><b>LUMEX</b> An ITW Company</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>	<p>DATE: 4.21.93 PAGE: 1 OF 1 SCALE: N/A</p>
T-3mm, 940nm INFRARED EMITTER, WATER CLEAR LENS.		<p>DRAWN BY: BC</p>	<p>CHECKED BY:</p>	<p>APPROVED BY:</p>

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REV.	SEE PAGE 1.	DATE



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