

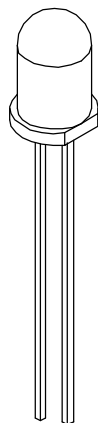
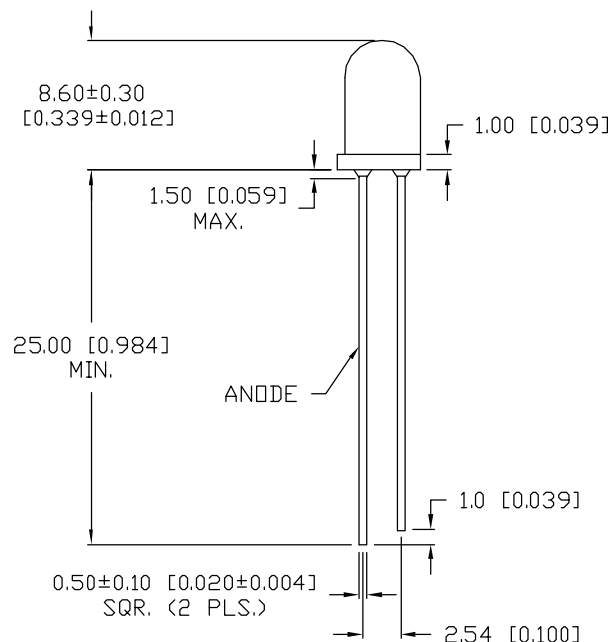
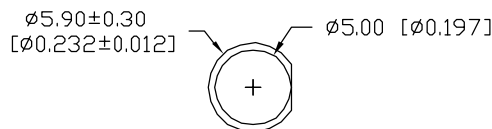
UNCONTROLLED DOCUMENT

PART NUMBER  
OED-EL5093B44

REV.

B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR.	1.7.98
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.30.02

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	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=10\mu\text{A}$
RADIANT INTENSITY	5.6	7.8		mW/SR	$I_f=20\text{mA}$
HALF ANGLE		±20		degrees	
EPOXY LENS FINISH: BLUE TRANSPARENT					

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	50	mA
POWER DISSIPATION	100	mW
DERATE FROM $25^\circ\text{C}$	-1.2	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

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

\*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

REV.

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T-5mm 940nm INFRARED LED,  
BLUE TRANSPARENT LENS.

## CONFIDENTIAL INFORMATION

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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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SCALE: N/A

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# Mouser Electronics

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