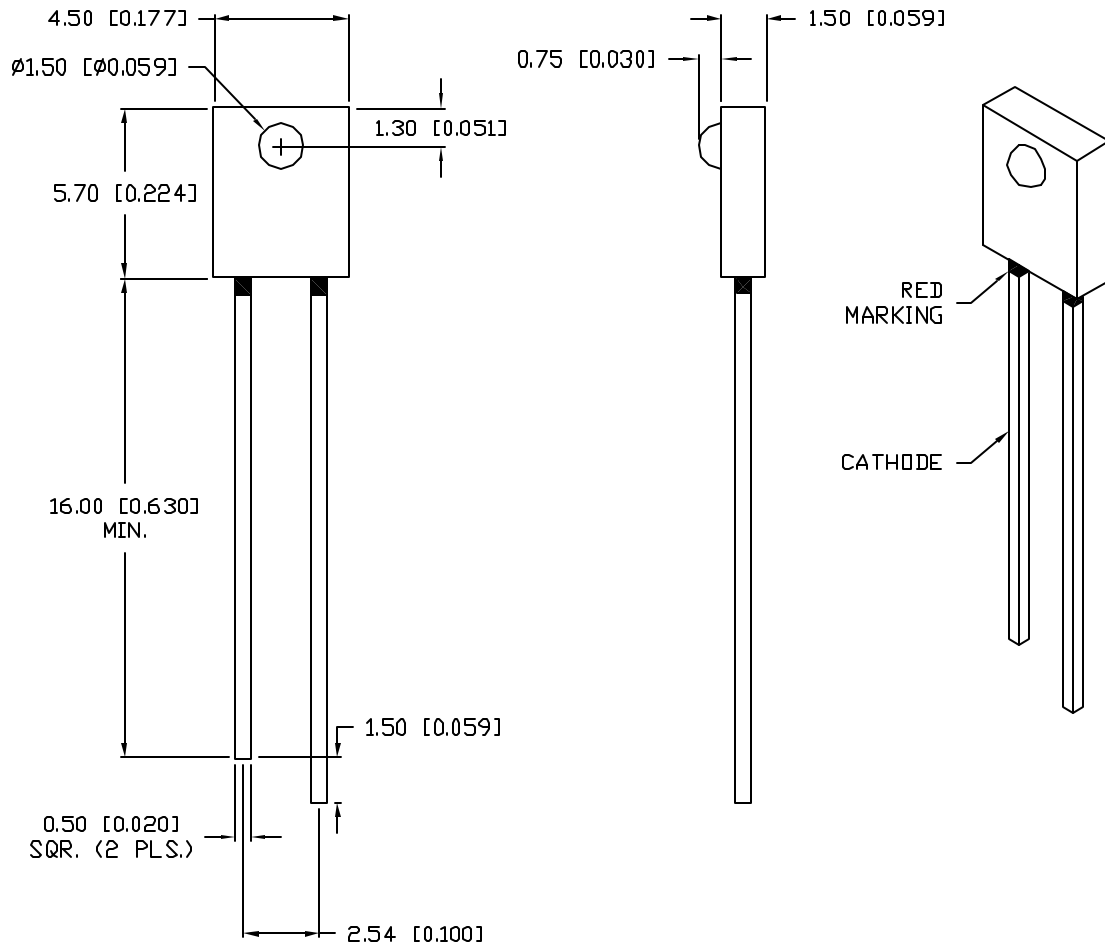


UNCONTROLLED DOCUMENT



PART NUMBER		REV.
OED-EL-1556SN-RP		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED EPOXY COLOUR.	10.7.97
B	E.C.N. #10BRDR.	1.7.98
C	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.31.02
D	E.C.N. #11232.	3.29.05

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		50		nm	
FORWARD VOLTAGE		1.2	1.4	V <sub>f</sub>	
REVERSE VOLTAGE	5.0			V <sub>r</sub>	$I_f=10\mu\text{A}$
RADIANT INTENSITY		1.8		mW/SR	$I_f=50\text{mA}$
HALF ANGLE		±15		degrees	

☐ EPOXY LENS FINISH: WATER CLEAR

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	60	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-20 TO +70	°C
STORAGE TEMP.	-30 TO +80	°C
SOLDERING TEMP.	+260	°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), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

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REV.	PART NUMBER
D	OED-EL-1556SN-RP

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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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T-1.5mm DOMED RIGHT ANGLE, 940nm INFRARED EMITTER,  
 WATER CLEAR LENS, REVERSE POLARITY.

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
BC			10.6.92
			PAGE: 1 OF 1
			SCALE: N/A