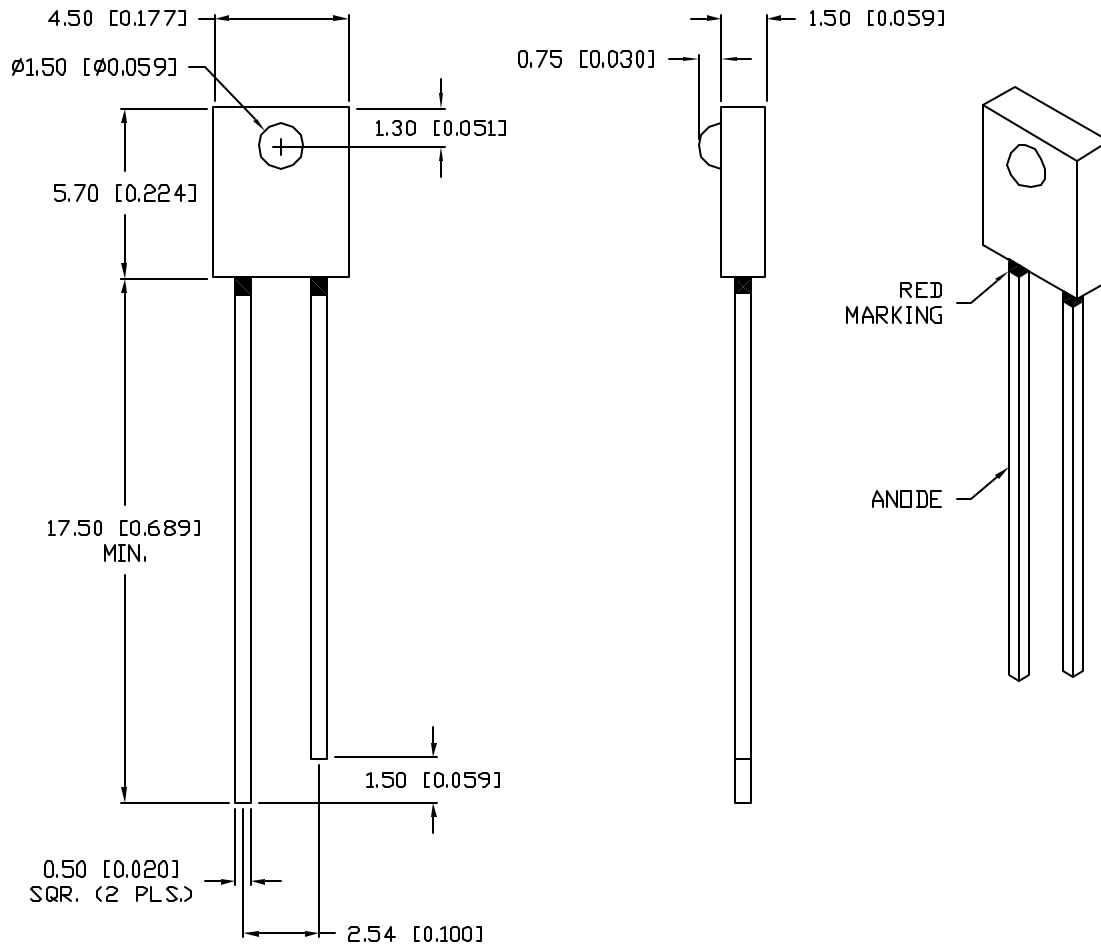


UNCONTROLLED DOCUMENT



PART NUMBER
OED-EL-1556SN

REV.
E

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED EPOXY COLOUR.	10.7.92
B	E.C.N. #10330.	4.11.97
C	E.C.N. #10BRDR.	1.7.98
D	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.31.02
E	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_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=10\mu\text{A}$
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/ $^\circ\text{C}$
OPERATING TEMP.	-20 TO +70	$^\circ\text{C}$
STORAGE TEMP.	-30 TO +80	$^\circ\text{C}$
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), 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

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
E	OED-EL-1556SN
T-1.5mm DOMED RIGHT ANGLE, 940nm INFRARED EMITTER, WATER CLEAR LENS.	

CONFIDENTIAL INFORMATION
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.

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.

LUMEX
The World's Answer to Work For You

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

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