

UNCONTROLLED DOCUMENT

PART NUMBER

OED-ELRD1556P40-R

REV.

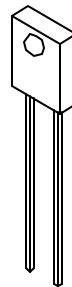
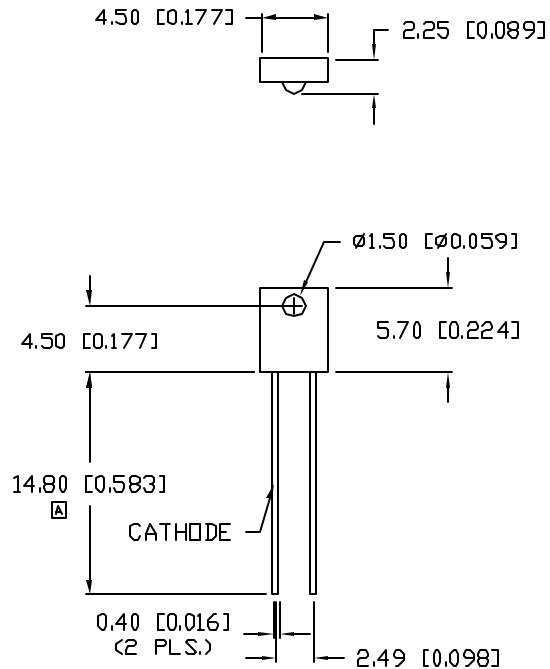
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REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #10BRDR. & REDRAWN & #10848.

3.26.02

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	$I_f=50\text{mA}$
FORWARD VOLTAGE		1.2	1.6	V_f	$I_f=40\text{mA}$
REVERSE VOLTAGE		5.0		V_r	$I_r=10\mu\text{A}$
RADIANT INTENSITY		17		mW/SR	$I_f=40\text{mA}$
HALF ANGLE		± 20		degree	
EPOXY LENS FINISH: PINK TRANSPARENT					

LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

*PULSE WIDTH 10 μs MAX, 1/10 DUTY CYCLE.

*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=+0.00 DECIMAL PRECISION MAX=+0.00 DECIMAL PRECISION

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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 RIGHT ANGLE DOME LENS, REVERSE POLARITY,
LIGHT EMITTING DIODE.

DRAWN BY:

GT

CHECKED BY:

APPROVED BY:

DATE: 3.26.02

PAGE: 1 OF 1

SCALE: N/A