

UNCONTROLLED DOCUMENT

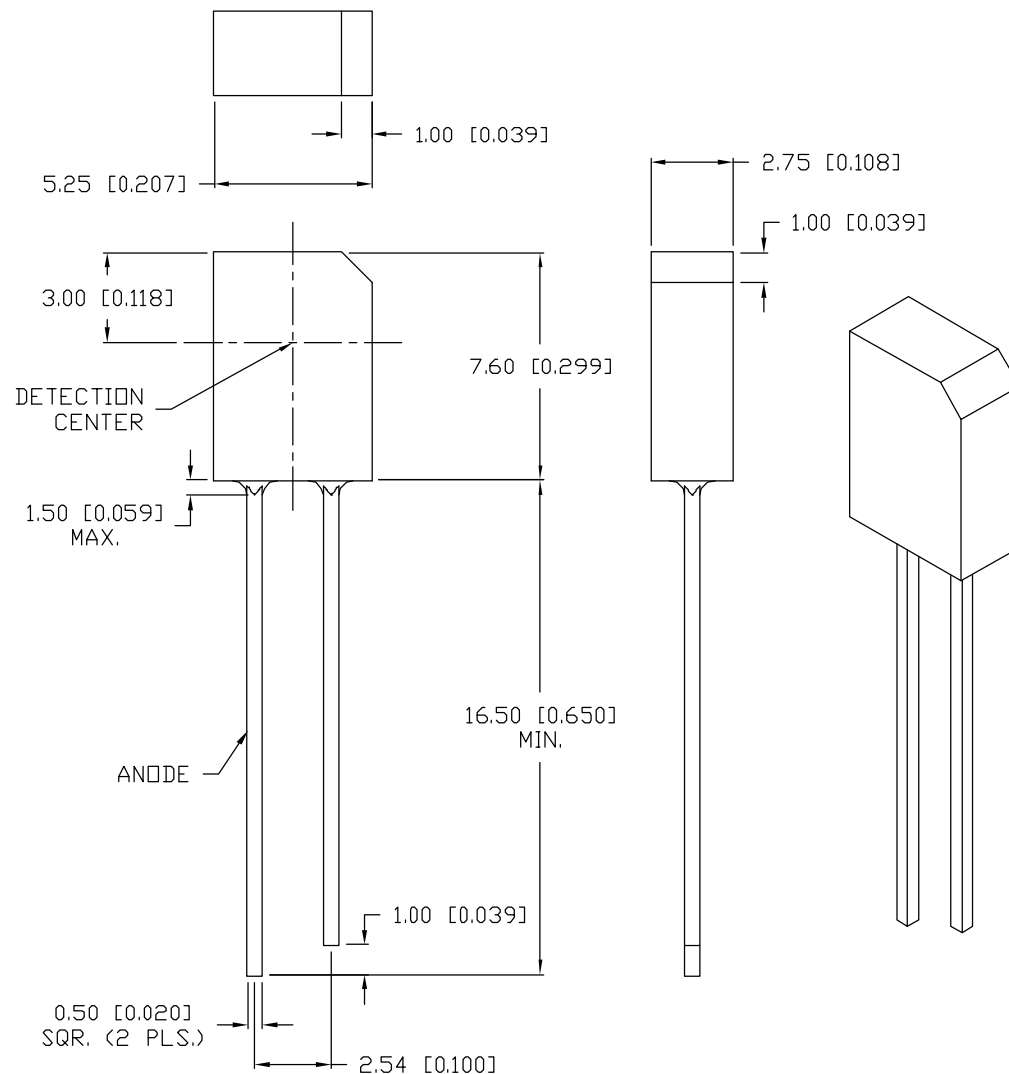
PART NUMBER

OED-HPIR582L140

REV.

A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN IN 3D.	1.9.03

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH SENS.		980		nm	
SPECTRAL SENSITIVITY	840		1200	nm	
OPEN CIRCUIT VOLTAGE		0.35		V	$E_e = 5.00 \text{ mW/cm}^2$
SHORT CIRCUIT CURRENT		80		$\mu\text{A}$	$E_e = 5.00 \text{ mW/cm}^2$
DARK CURRENT			30	nA	$V_r = 10\text{V}$
SWITCHING TIME		50		nS	$V_r = 10\text{V}, R_L = 1000\Omega$
TOTAL CAPACITANCE		25		pF	$E_e = 0.0 \text{ mW/cm}^2$
					$V_r = 3\text{V}, F = 1\text{MHz}$
HALF ANGLE		$\pm 70$		degrees	
EPOXY FINISH:	BLACK				

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

PARAMETER	MAX	UNITS
REVERSE VOLTAGE	32	V
POWER DISSIPATION	150	mW
OPERATING TEMP.	-25 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	

\*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

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5mm x 8mm RECTANGULAR, RIGHT ANGLE PHOTODIODE.

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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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DATE: 12.18.97

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SCALE: N/A

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