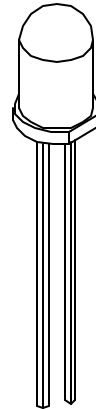
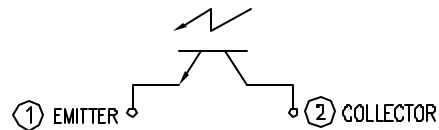
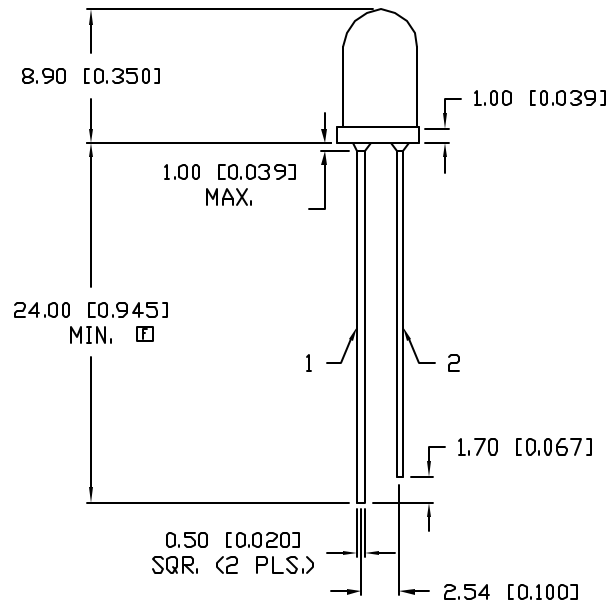
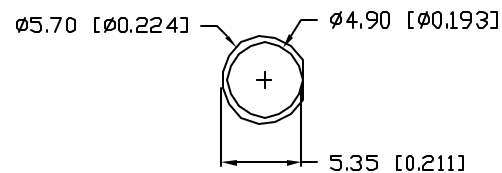


UNCONTROLLED DOCUMENT

PART NUMBER
OED-ST-1L1REV.
F

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	CHANGED LENGTH OF LEAD.	3.31.93
B	E.C.N. #10150.	4.19.96
C	E.C.N. #10306.	2.6.97
D	E.C.N. #10BRDR. & REDRAWN	1.5.98
E	E.C.N. #10581.	1.4.00
F	E.C.N. #10853. & #10BRDR.	4.19.02

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
COLLECTOR DARK CURRENT			100	nA	$V_{ce} = 10\text{V}$ $E_e = 0\text{mW/cm}^2$
COLLECTOR LIGHT CURRENT	7.0	25		mA	$V_{ce} = 3\text{V}$ $E_v = 1000\text{ LUX}$
COLLECTOR-EMITTER SATURATION VOLTAGE			0.4	V	$I_c = 0.2\text{mA}$ $E_v = 1000\text{ LUX}$
SWITCHING SPEEDS					$V_{cc} = 10\text{V}$
RISE TIME		2.5		μS	$I_c = 1\text{mA}$
FALL TIME		3.8		μS	$RL = 100\Omega$
PEAK WAVELENGTH		800		nm	
SPECTRAL SENSITIVITY	450		1050	nm	
ANGULAR RESPONSE		$\pm 10^\circ$			
LENS COLOR:	CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE (V_{ce})	20	V
EMITTER-COLLECTOR VOLTAGE (V_{ce})	5	V
POWER DISSIPATION	100	mW
OPERATING TEMPERATURE	-20 TO +80	$^\circ\text{C}$
STORAGE TEMPERATURE	-30 TO +85	$^\circ\text{C}$
SOLDERING TEMP. 2.0mm FROM BODY	+260	$^\circ\text{C}$ 3 SEC. MAX

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (± 0.039), $XX=\pm 0.5$ (± 0.020), $XXX=\pm 0.25$ (± 0.010), $XXXX=\pm 0.127$ (± 0.005). LEAD SIZE= ± 0.05 (± 0.002), LEAD LENGTH= ± 0.75 (± 0.030), MIN= $\begin{matrix} +0.00 \\ -0.00 \end{matrix}$ DECIMAL PRECISION MAX= $\begin{matrix} +0.00 \\ -0.00 \end{matrix}$ DECIMAL PRECISIONREV.
FPART NUMBER
OED-ST-1L1T-5mm PHOTOTRANSISTOR,
WATER CLEAR 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