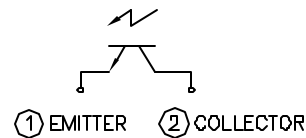
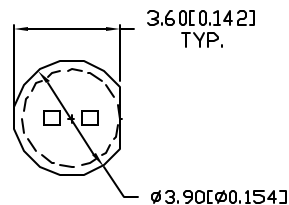
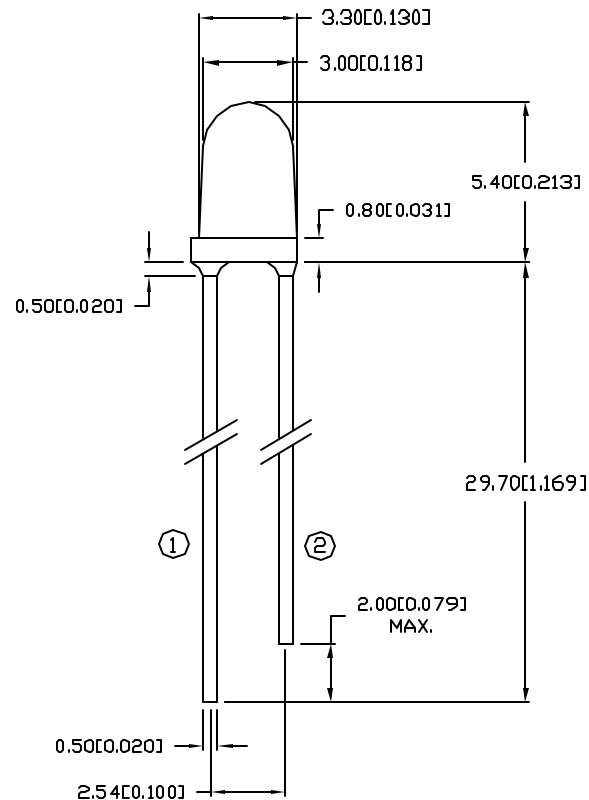


DATE	REVISIONS	REV
9-30-96	E.C.N. #10247./	A
1-5-98	E.C.N. #10BRDR./	B

DRAWING NUMBER	REV
OED-ST-8L	B

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	$I_{ce0}$	$V_{ce0} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$		1	100	nA
COLLECTOR LIGHT CURRENT	$I_c$	$V_{ce} = 3\text{V}$ $E_e = 0.5\text{mw/cm}^2$	1.0	10		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce}(\text{sat})$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$			1.0	V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$				
RISING TIME	$T_r$	$I_c = 1\text{mA}$		40		$\mu\text{S}$
FALLING TIME	$T_f$	$R_I = 100\Omega$		60		$\mu\text{S}$
PEAK WAVELENGTH	$\lambda_p$			880		nm
ANGULAR RESPONSE	$\Delta\theta$			$\pm 20$		DEG
LENS COLOR:	CLEAR					



LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE ( $V_{ce0}$ )	20	V
EMITTER-COLLECTOR VOLTAGE ( $V_{eco}$ )	5	V
POWER DISSIPATION	75	mW
OPERATING TEMP.	-20 TO +80	$^\circ\text{C}$
STORAGE TEMP.	-20 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

**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**  
INCORPORATED

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(847) 359-2790

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DATE: 7-9-93	DWN:	CHK'D:	APPD:
SCALE: N/A			

NPN SILICON PHOTOTRANSISTOR,  
WATER CLEAR LENS.

PAGE 1 OF 1	DRAWING NUMBER OED-ST-8L	REV B
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**UNCONTROLLED DOCUMENT**

UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010"$ )