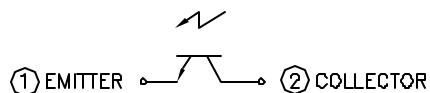
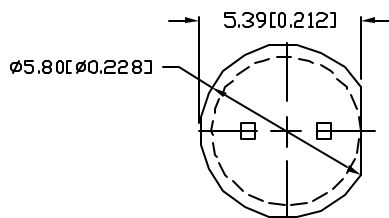
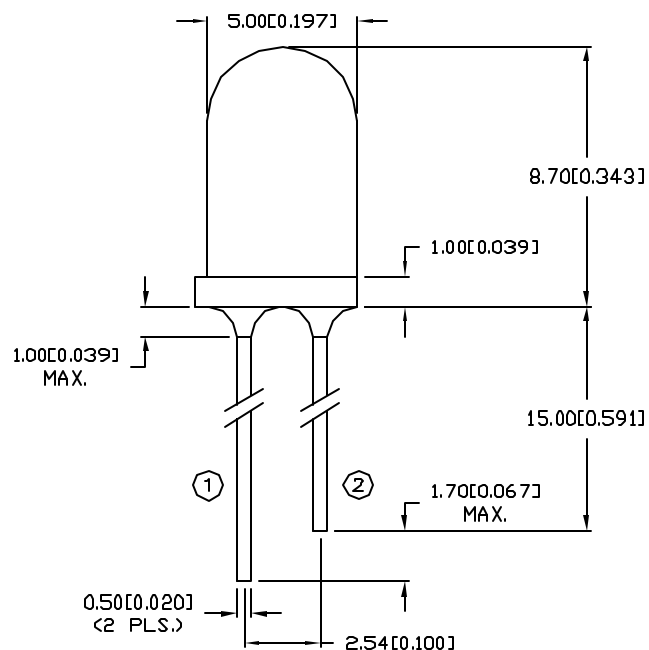


DATE	REVISIONS	REV
4-19-96	E.C.N. #10149./	A
1-5-98	E.C.N. #10BRDR./	B

DRAWING NUMBER	REV
OED-ST-1L2	B



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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ceo}	$V_{ceo} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$			100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$	1.0		28	mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$		0.4	0.5	V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$				
RISING TIME	T_r	$I_c = 1\text{mA}$		2.5		μS
FALLING TIME	T_f	$R_L = 100\ \Omega$		2.5		μS
PEAK WAVELENGTH	λ_p			880		nm
ANGULAR RESPONSE	$\Delta\theta$			± 20		DEG
LENS COLOR:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE (V_{ceo})	30	V
EMITTER-COLLECTOR VOLTAGE (V_{eca})	5	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-20 TO $+80$	$^\circ\text{C}$
STORAGE TEMP.	-30 TO $+85$	$^\circ\text{C}$
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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DATE: 1-5-98	DWN:	CHK'D:	APP'D:
SCALE: N/A			

T-5mm PHOTOTRANSISTOR,
WATER CLEAR LENS.

PAGE 1 OF 1	DRAWING NUMBER OED-ST-1L2	REV B
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UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010"$)