

DATE	REVISIONS	REV
10-24-95	CORRECTED EMITTER/COLLECTOR PIN NUMBERING./	A
12-22-97	E.C.N. #10BRDR./	B

DRAWING NUMBER	REV
OED-ST-23G	B

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ceo}	$V_{ceo} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$		1	100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$	0.5	4.0		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$		0.2	0.4	V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$				
RISING TIME	T_r	$I_c = 1\text{mA}$		3.2		μS
FALLING TIME	T_f	$R_L = 100\Omega$		4.8		μS
PEAK WAVELENGTH	λ_p			880		nm
ANGULAR RESPONSE	$\Delta\theta$			± 30		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_{eco})	6	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-20 TO $+100$	$^\circ\text{C}$
STORAGE TEMP.	-30 TO $+100$	$^\circ\text{C}$
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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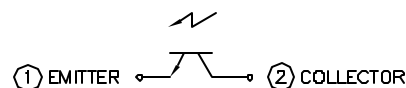
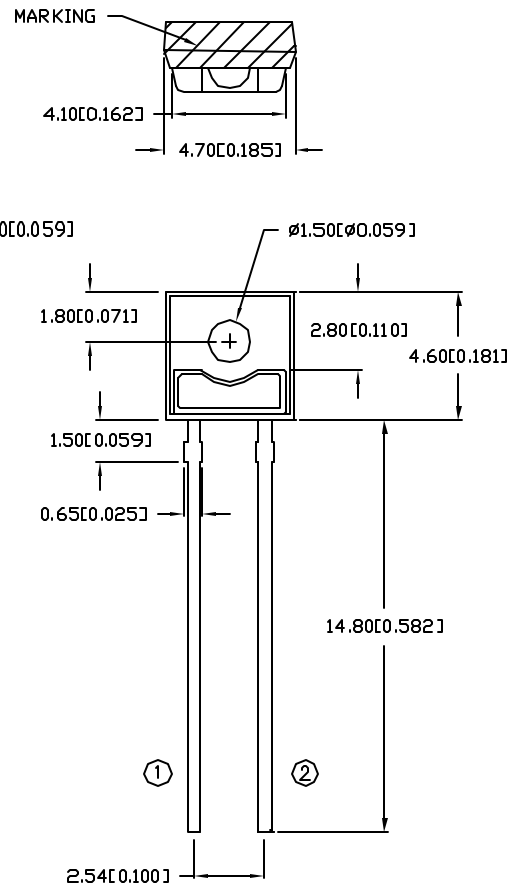
DATE:	12-22-97	DWN:	CHK'D:	APPD:
SCALE:	N/A			

HIGH OUTPUT PHOTOTRANSISTOR,
WATER CLEAR LENS, SIDE-EMITTING.

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DRAWING NUMBER
OED-ST-23G

REV
B



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