

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

DRAWING NUMBER OED-ST-23G	REV B
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ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$

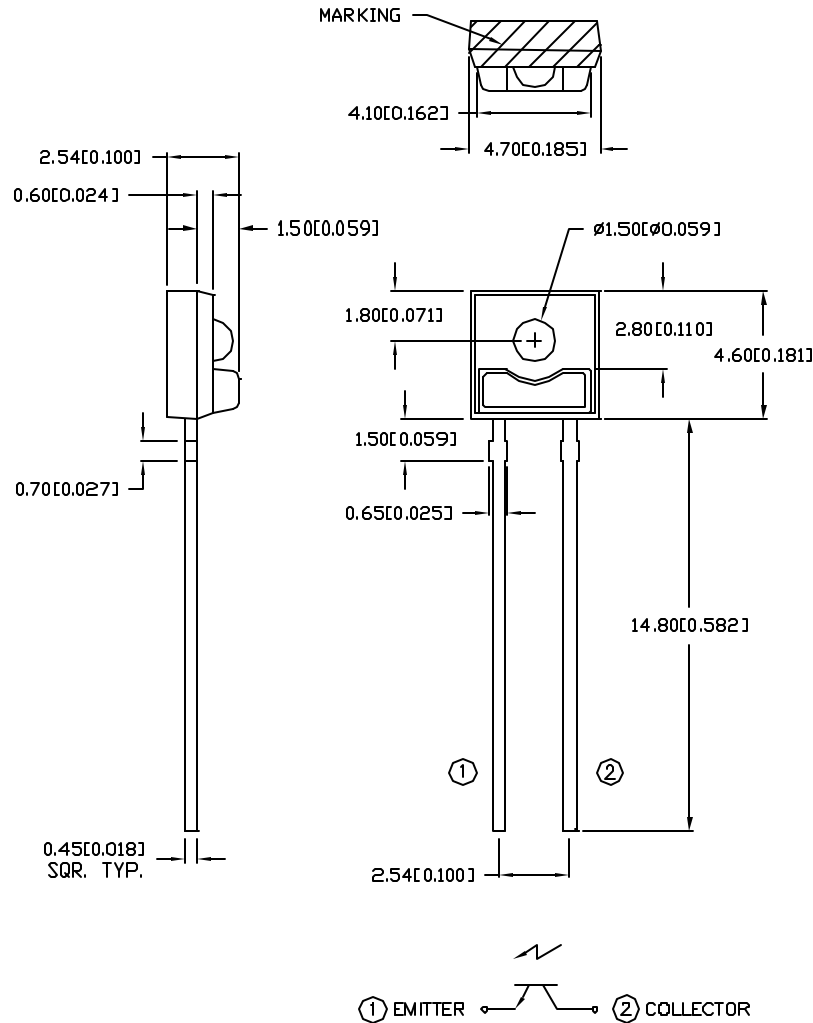
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	$I_{ceo}$	$V_{ce0} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$		1	100	nA
COLLECTOR LIGHT CURRENT	$I_c$	$V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$	0.5	4.0		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$		0.2	0.4	V
SWITCHING SPEEDS:						
RISING TIME	$T_r$	$V_{cc} = 5\text{V}$ $I_c = 1\text{mA}$		3.2		$\mu\text{S}$
FALLING TIME	$T_f$	$R_l = 100\Omega$		4.8		$\mu\text{S}$
PEAK WAVELENGTH	$\lambda_p$			880		nm
ANGULAR RESPONSE	$\Delta\theta$			$\pm 30$		DEG
LENS COLOR:	CLEAR					

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

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE ( $V_{ce0}$ )	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.



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

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DATE:	12-22-97	DWN:	CHK'D:
SCALE:	N/A		APPD:
HIGH OUTPUT PHOTOTRANSISTOR, WATER CLEAR LENS, SIDE-EMITTING.			
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