



# THE DATASHEET OF OED-ST-23G



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
------------------------------	----------

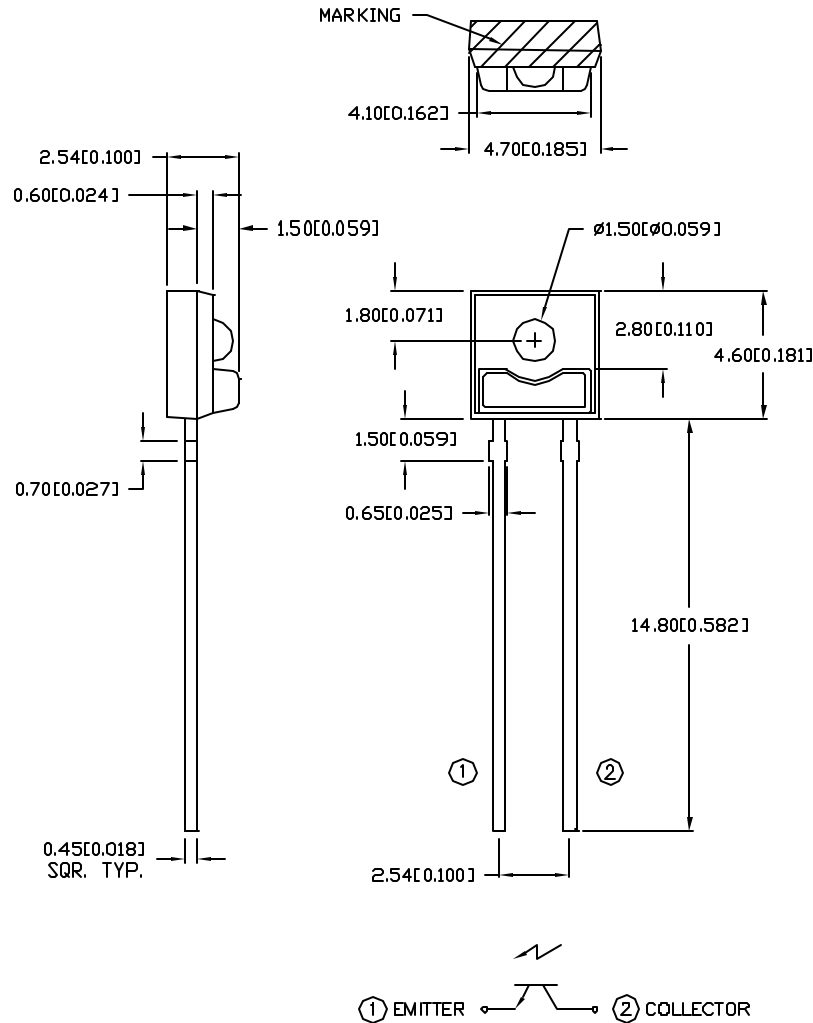
ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$

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  $\pm 0.25\text{mm}$  ( $\pm 0.010''$ )

<b>LUMEX</b> INCORPORATED		290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 (847) 359-2790	
CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INCORPORATED. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INCORPORATED, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.			
DATE:	12-22-97	DWN:	CHK'D:
SCALE:	N/A		APPD:
HIGH OUTPUT PHOTOTRANSISTOR, WATER CLEAR LENS, SIDE-EMITTING.			
PAGE 1 OF 1	DRAWING NUMBER OED-ST-23G	REV B	

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View OED-ST-23G on WIN SOURCE](#)
- ⊖ [Lumex Opto/Components Inc. Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management