



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

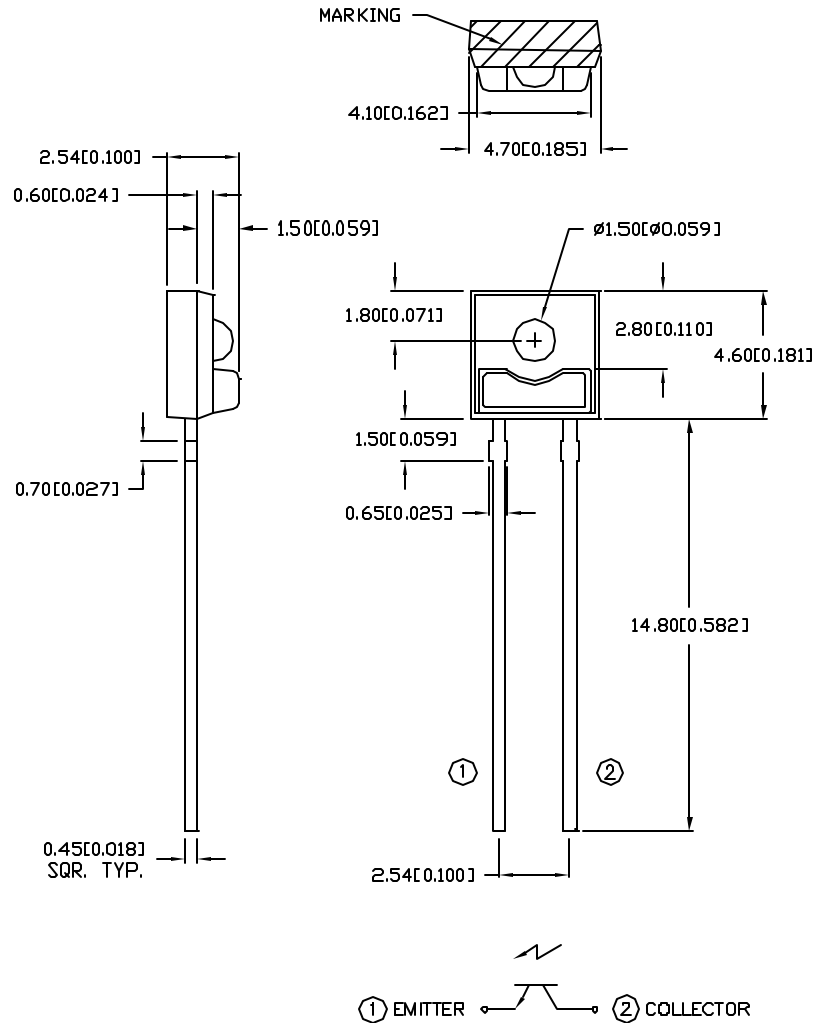
| PARAMETER | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
|--------------------------------------|----------------|---|-----|----------|-----|---------------|
| COLLECTOR DARK CURRENT | I_{ceo} | $V_{ce0} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$ | | 1 | 100 | nA |
| COLLECTOR LIGHT CURRENT | I_c | $V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$ | 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 | | 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_{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. | | | |
| PAGE 1 OF 1 | DRAWING NUMBER OED-ST-23G | REV B | |

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