

UNCONTROLLED DOCUMENT

PART NUMBER
OED-ST-44FREV.
D

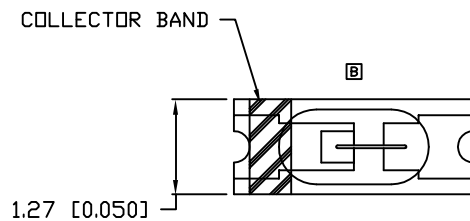
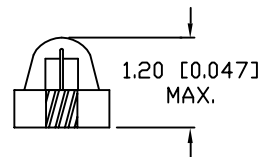
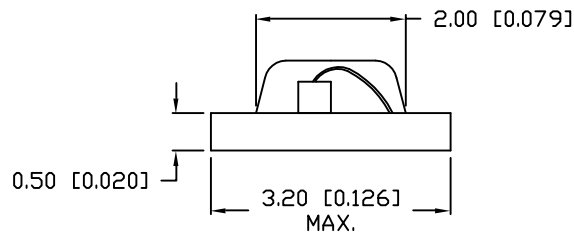
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|----------|
| A | E.C.N. #10BRDR. & REDRAWN. | 1.5.95 |
| B | E.C.N. #10434. | 6.3.98 |
| C | E.C.N. #10936. & #10BRDR | 12.11.02 |
| D | E.C.N. #E11062 | 12.3.03 |

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

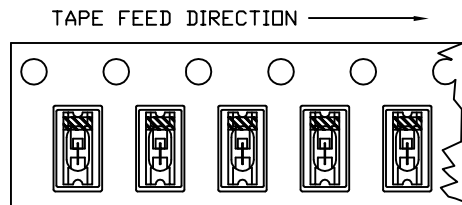
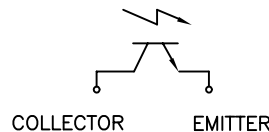
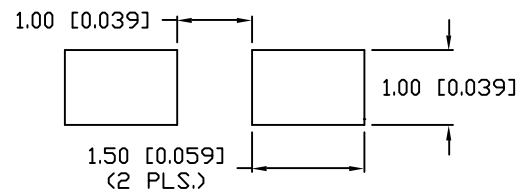
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------------------------|-----|-----|-----|---------------|---|
| □ COLLECTOR DARK CURRENT | | | 400 | nA | $V_{ce} = 10\text{V}$ $E_e = 0 \text{ mw/cm}^2$ |
| COLLECTOR LIGHT CURRENT | | 3.0 | | mA | $V_{ce} = 5\text{V}$ $E_v=1000\text{LUX}$ |
| COLLECTOR-EMITTER SATURATION VOLTAGE | | | 0.3 | V | $I_c=1\text{mA}$ $E_v=1000\text{LUX}$ |
| □ □ SWITCHING SPEEDS: | | | | | $V_{ce}=5\text{V}$ $I_c=1\text{mA}$ $R_I = 1000 \Omega$ |
| RISING TIME | | 10 | | μS | |
| FALLING TIME | | 10 | | μS | |
| PEAK WAVELENGTH SENSITIVITY | | 850 | | nm | |
| LENS COLOR: WATER CLEAR | | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|---|-------------|------------------|
| COLLECTOR-EMITTER VOLTAGE (V_{ce0}) | 70 | V |
| EMITTER-COLLECTOR VOLTAGE (V_{ce0}) | 5 | mA |
| COLLECTOR CURRENT | 100 | mA |
| POWER DISSIPATION | 200 | mW |
| OPERATING TEMP. | -25 TO +85 | $^\circ\text{C}$ |
| STORAGE TEMP. | -25 TO +120 | $^\circ\text{C}$ |



RECOMMENDED SOLDER PAD LAYOUT



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX= +0.00 -DECIMAL PRECISION

REV.
DPART NUMBER
OED-ST-44FCERAMIC CHIP, SURFACE MOUNT PHOTOTRANSISTOR,
WATER CLEAR LENS, TAPE AND REEL.

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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.



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| DRAWN BY: CT | CHECKED BY: | APPROVED BY: | DATE: 12.11.02 PAGE: 1 OF 1 SCALE: N/A |
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Mouser Electronics

Authorized Distributor

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Lumex:

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