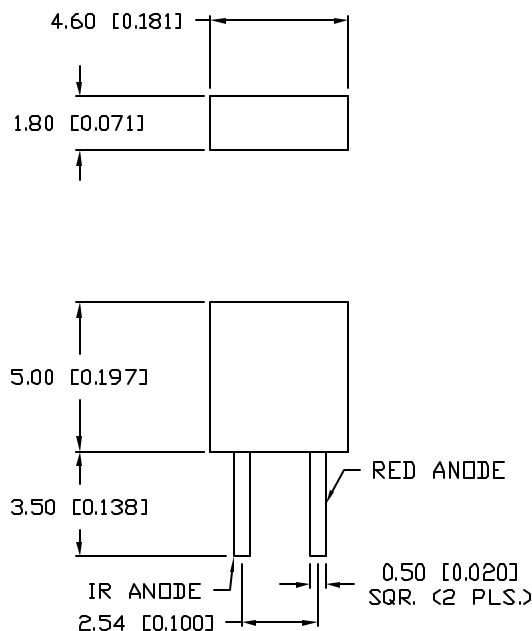


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-DLSR-1855CREV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE   |
|------|-------------------------------------|--------|
| A    | E.C.N. #11148.                      | 5.7.07 |

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

| PARAMETER              | MIN         | TYP       | MAX     | UNITS         | TEST COND            |
|------------------------|-------------|-----------|---------|---------------|----------------------|
| PEAK WAVELENGTH        |             | 904 (IR)  |         | nm            |                      |
|                        |             | 660 (RED) |         | nm            |                      |
| FORWARD VOLTAGE (IR/R) |             | 1.3/1.7   | 1.6/2.2 | $V_f$         |                      |
| REVERSE VOLTAGE        | 5.0         |           |         | $V_r$         | $I_f=100\mu\text{A}$ |
| RADIANT INTENSITY (IR) |             | 7.0       |         | $\mu\text{W}$ | $I_f=100\text{mA}$   |
| AXIAL INTENSITY (RED)  |             | 8.2       |         | mcd           | $I_f=20\text{mA}$    |
| HALF ANGLE             |             | 100       |         | 2x theta      |                      |
| EMITTED COLOR:         | IR/RED      |           |         |               |                      |
| EPOXY LENS FINISH:     | WATER CLEAR |           |         |               |                      |

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

| PARAMETER                      | COLORS | MAX        | UNITS                      |
|--------------------------------|--------|------------|----------------------------|
| PEAK FORWARD CURRENT*          | (IR/R) | 1000/40    | mA                         |
| STEADY CURRENT                 | (IR/R) | 100/30     | mA                         |
| POWER DISSIPATION              |        | 150        | mW                         |
| DERATE FROM $25^\circ\text{C}$ |        | -1.2       | $\text{mW}/^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       |        | -20 TO +85 | $^\circ\text{C}$           |
| SOLDERING TEMP.                |        | +260       | $^\circ\text{C}$           |
| 2.0mm FROM BODY                |        |            | 3 SEC. MAX                 |

\*  $t < 10\mu\text{s}$ 

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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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.  
APART NUMBER  
OED-DLSR-1855C

4.6mm x 5mm DUAL EMITTER / PHOTODETECTOR PAIR,  
660nm SUPER RED, 904nm INFRARED.

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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: | CHECKED BY: | APPROVED BY: | DATE: 2.12.04 |
| JC        |             |              | PAGE: 1 OF 1  |
|           |             |              | SCALE: N/A    |