

UNCONTROLLED DOCUMENT

PART NUMBER  
OED-MRM7938-2FREV.  
A

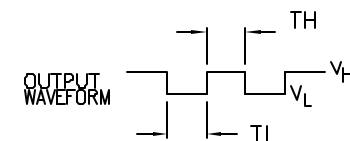
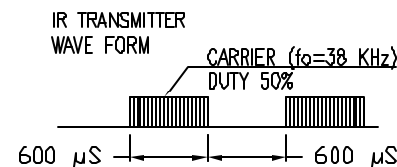
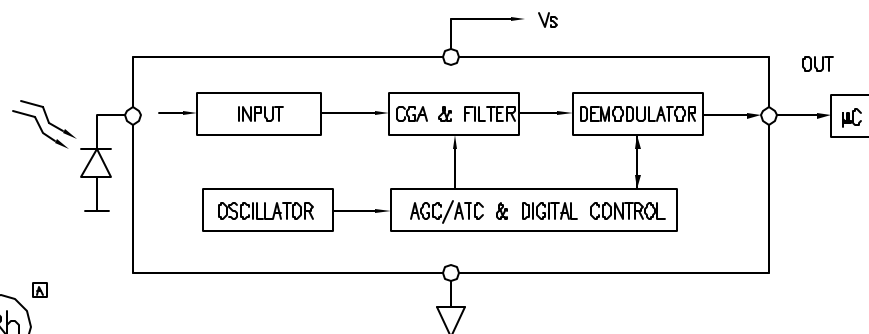
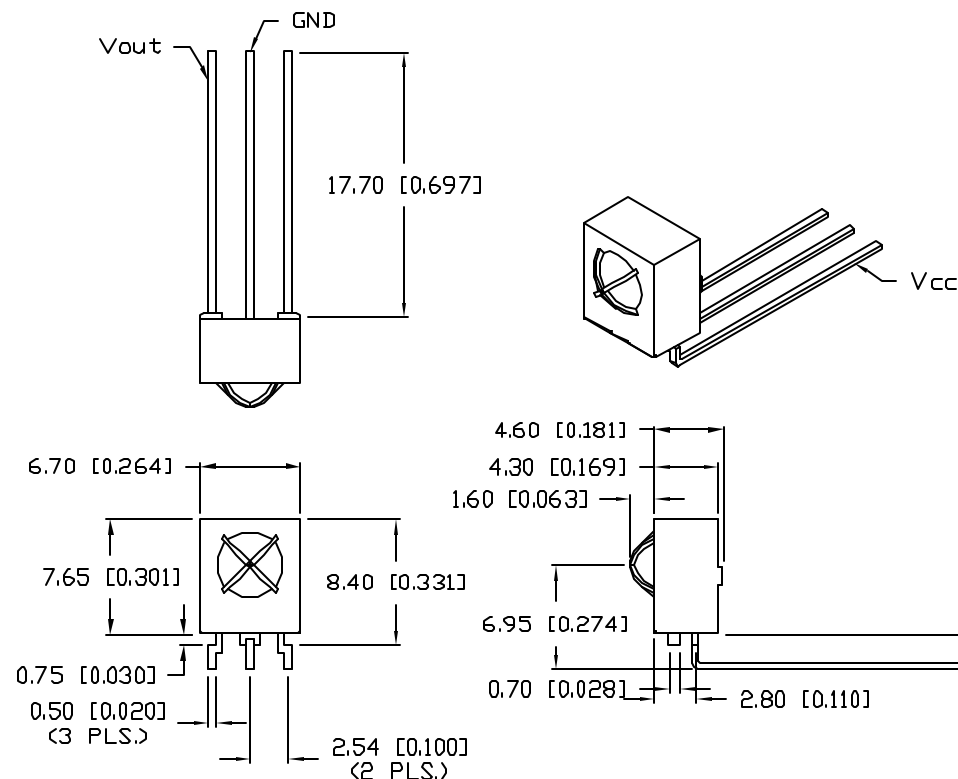
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE   |
|------|-------------------------------------|--------|
| A    | E.C.N. #11148                       | 5.7.07 |

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

| PARAMETER                 | SYMBOL      | MIN | TYP | MAX | UNITS         |
|---------------------------|-------------|-----|-----|-----|---------------|
| SUPPLY VOLTAGE            | $V_{CC}$    | 2.5 | -   | 5.5 | V             |
| SUPPLY CURRENT            | $I_{CC}$    | -   | -   | 3.0 | mA            |
| DETECTING DISTANCE        | $L$         | 8   | -   | -   | m             |
| HALF ANGLE                | $\theta_h$  | -   | 45  | -   | DEG           |
|                           | $\theta_v$  | -   | 45  | -   | DEG           |
| B.P.F. CENTER FREQUENCY   | $f_o$       | -   | 38  | -   | kHz           |
| PEAK WAVELENGTH           | $\lambda_p$ | -   | 940 | -   | nm            |
| HIGH/LOW LVL. PULSE WIDTH | TH/TL       | 400 | -   | 800 | $\mu\text{S}$ |

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

| PARAMETER       | MAX        | UNITS            |
|-----------------|------------|------------------|
| REVERSE VOLTAGE | 5.5        | V                |
| STEADY CURRENT  | 3          | mA               |
| OPERATING TEMP. | -25 TO +85 | $^\circ\text{C}$ |
| STORAGE TEMP.   | -40 TO +85 | $^\circ\text{C}$ |
| SOLDERING TEMP. | +260       | $^\circ\text{C}$ |
| 4.0mm FROM BODY | 5 SEC. MAX |                  |



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\*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.=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.  
APART NUMBER  
OED-MRM7938-2FMINI RECIEVER MODULE,  
RIGHT ANGLE LEADS.

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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:<br>JC | CHECKED BY: | APPROVED BY: | DATE: 11.11.03<br>PAGE: 1 OF 1<br>SCALE: N/A |
|-----------------|-------------|--------------|----------------------------------------------|