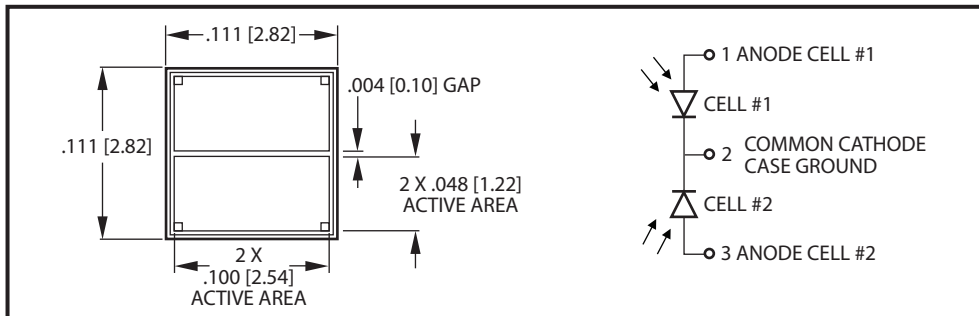


FEATURES

- Red enhanced
- Low noise
- High response
- High shunt resistance
- Low profile TO-5 package



ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

| CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|-------------------------------|------|-----------------------|------|----------------|
| Dark Current, I_D | $V_R = 5 V$ | | 0.9 | 2.5 | na |
| Shunt Resistance, R_{SH} | $V_R = 10 mV$ | | 300 | | $M\Omega$ |
| Junction Capacitance, C_J | $V_R = 0 V, f = 1 MHz$ | | 30 | | pF |
| Junction Capacitance, C_J | $V_R = 10 V, f = 1 MHz$ | | 7.5 | | pF |
| Spectral Application Range, λ_{range} | Spot Scan | 250 | | 1100 | nm |
| Responsivity, R | $\lambda = 633 nm, V_R = 0 V$ | 0.32 | 0.36 | | A/W |
| Responsivity, R | $\lambda = 900 nm, V_R = 0 V$ | 0.50 | 0.60 | | A/W |
| Breakdown Voltage, V_R | $I_R = 10 \mu A$ | | 75 | | V |
| Noise Equivalent Power, NEP | $V_R = 0 V, \lambda = 950 nm$ | | 2.5×10^{-14} | | W/ \sqrt{HZ} |
| Response Time, t_r^1 | $RL = 50 \Omega, V_R = 0 V$ | | 190 | | nsec |
| Response Time, t_r^1 | $RL = 50 \Omega, V_R = 10 V$ | | 8 | | nsec |

¹Response time of 10% to 90% is specified at 660 nm.

ABSOLUTE MAXIMUM RATINGS AT 25°C

| PARAMETER | MIN | MAX | UNITS |
|--|------|------|-------|
| Reverse Voltage, V_R | | 100 | V |
| Storage Temperature, T_{STG} | - 55 | +150 | °C |
| Operating Temperature, T_O | - 40 | +125 | °C |
| Lead Soldering Temperature (1/16" from case for 3 sec) | | +260 | °C |



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