

PHOTO MODULES FOR INFRARED REMOTE CONTROL SYSTEMS HRM3800 and HRM3800B

DESCRIPTION:

- The HRM series are miniaturized receivers for infrared remote control systems. PIN diode and preamplifier are assembled on lead frame. The demodulated output signal can be decoded directly by a microprocessor.

FEATURES:

- High Reliability
- Inner shield for good anti-interference ability
- Low Power Consumption, only 5V supply voltage
- High Sensitivity, large transmission range

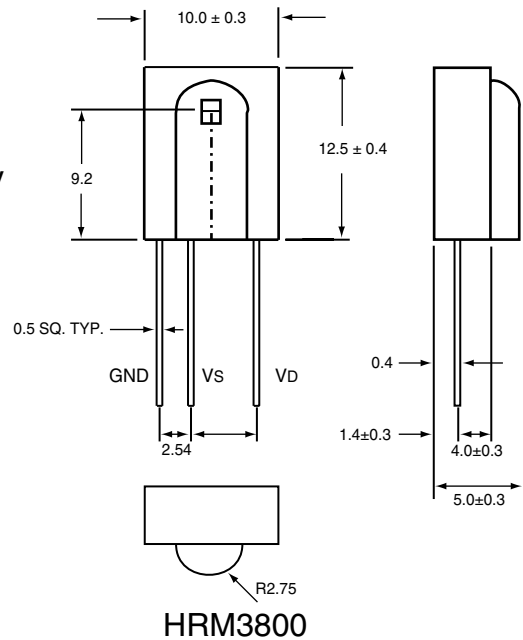
Maximum Ratings (T_a=25°)

Supply Voltage (V_s) = 6.0V

Operating Temperature Range (T_{amb}) = -25 to + 85°C

Storage Temperature (T_{STG}) = -25 to + 85°C

Soldering Temperature (T_{SOL})= 260°C



Optoelectronic Characteristics (T_a=25°C)

| PARAMETER | Unit | Min. | Typ. | Max. |
|--|------|------|------|------|
| Supply Current (I _{cc}) | mA | - | 2.5 | 5 |
| Peak Emitting Wavelength (λ _P) | nm | - | 940 | - |
| Modulated Frequency (f _o) | KHz | - | 37.9 | - |
| High Level Output Voltage (V _{OH}) | V | 4.2 | 5.0 | - |
| Low Level Output Voltage (V _{OL}) | V | - | 0.2 | .25 |
| High Level Output Pulse Width (T _{wh}) | μS | 540 | 600 | 660 |
| Low Level Output Pulse Width (T _{wl}) | μS | 540 | 600 | 660 |
| Receiving Distance (L) | m | 15 | - | - |
| Controlled Angle (Δθ) | deg | - | ±55 | - |

