

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 assenbled on lead frame. The demoduolated 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

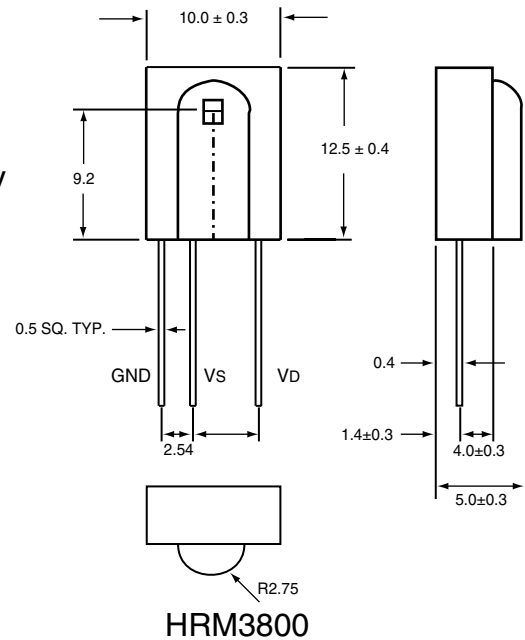
Maximum Ratings ($T_a=25^\circ$)

Supply Voltage (V_s) = 6.0V

Operating Temperature Range (T_{amb}) = -25 to $+85^\circ\text{C}$

Storage Temperature (T_{STG}) = -25 to $+85^\circ\text{C}$

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



Optoelectric Characteristics ($T_a=25^\circ\text{C}$)

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 ($\Delta\theta$)	deg	-	± 55	-

