

DS18B20 TEMPERATURE SENSOR

DALLAS DS18B20 1 WIRE DIGITAL SENSOR



FEATURES

- Unique 1-Wire interface requires only one port pin for communication
- Multidrop capability simplifies distributed temperature sensing applications
- Requires no external components
- Can be powered from data line. Power supply range is 3.0V to 5.5V
- Zero standby power required
- Measures temperatures from -55°C to $+125^{\circ}\text{C}$. Fahrenheit equivalent is -67°F to $+257^{\circ}\text{F}$
- $\pm 0.5^{\circ}\text{C}$ accuracy from -10°C to $+85^{\circ}\text{C}$
- Thermometer resolution is programmable from 9 to 12 bits
- Converts 12-bit temperature to digital word in 750 ms (max.)
- User-definable, nonvolatile temperature alarm settings
- Alarm search command identifies and addresses devices whose temperature is outside of programmed limits (temperature alarm condition)
- Applications include thermostatic controls, industrial systems, consumer products, thermometers, or any thermally sensitive system

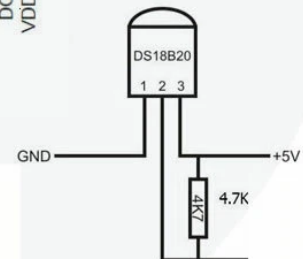
PIN ASSIGNMENT



BOTTOM VIEW



DS18B20 To-92 Package



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