



TSSP77038ETR Infrared Sensor Module in Heimdall Package Features Extended Storage Temp. Range of -40 °C to +110 °C and Operating Temp. Range of -30 °C to +85 °C for Outdoor Applications

Product Benefits:

- Robust Heimdall package
- Extended temperature
 - Storage temperature range of -40 °C to +110 °C
 - Operating temperature range of -30 °C to +85 °C
- Long range presence sensing up to 8 m when used with Vishay's TSAL6200 IR emitting diode at a forward current of 50 mA
- Supply voltage range from 2.5 V to 5.5 V
- Low supply current of 0.7 mA
- Insensitive to supply voltage ripple noise
- Provides shielding against EMI
- Daylight blocking filter suppresses visible light
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- Proximity sensor for toys, drones, and robots
- Reflective sensor for hand dryers, towel or soap dispensers, water faucets, toilets, vending machine fall detectors, and security and pet gates
- Garage door light barrier systems, door locks, and package and trash bins

The News:

Vishay Intertechnology introduces a new extended temperature “E” option for its TSSP77038 infrared (IR) sensor module in the Heimdall package. Designed to meet the special requirements of outdoor applications, the Vishay Semiconductors TSSP77038ETR has been enhanced with a storage temperature range of -40 °C to +110 °C and an operating temperature range of -30 °C to +85 °C.

- Standard packages for IR sensor modules offer limited storage and operating temperature ranges of -25 °C to +85 °C
 - With the robust design of its Heimdall package, the TSSP77038ETR is able to handle a wider temperature range, making the device ideal for operation in applications exposed to direct sunlight and large temperature variations
- Designed to receive IR pulses from an emitter with a peak wavelength of 940 nm



The Key Specifications:

- Storage temperature range: -40 °C to +110 °C
- Operating temperature range: -30 °C to +85 °C
- Transmission distance: 8 m
- Supply voltage range: 2.5 V to 5.5 V
- Typical supply current: 0.7 mA
- Carrier frequency: 38 kHz

Availability:

Samples and production quantities of the TSSP77038ETR are available now, with lead times of eight weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?82470> (TSSP770..)

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