



0-834-05 - Zener Diode, ON Semiconductor, 15V Zener Diode 5% 5 W Through Hole 2-Pin

Zener Diode, ON Semiconductor 1N53 series is Surmetic™ 40 axial-leaded 5 Watt zener diode This axial lead device features a molded package which is void-free transfer-molded, thermosetting plastic, offers protection in most common environmental conditions, The voltage regulator has tight limits and better operating characteristics that reflect the superior capabilities of silicon-oxide passivated junctions. The external surfaces are corrosion resistant and leads are readily solderable.

The Zener diode can be used to support several applications. An example is where stray voltage (upto 8VDC) may be present in a 24V CANBUS system. This can cause an issue for products with sensitive trigger dependent inputs (+2VDC) such as an indicator input into a side detection system. The Zener diode will only allow the nominal voltage to pass through the circuit while also blocking the reverse flow of current. This ensures the product is only activated when the trigger is fully applied and the voltage is above nominal, in the case of a 24VDC system usually 22-30VDC. The stray voltage is no longer able to interrupt the circuit and cause spurious triggering. Please ensure all connections are sealed sufficiently with adhesive lined heatshrink to prevent ingress.



TECHNICAL SPECIFICATIONS

Type	Zener Diode, ON Semiconductor
Nominal Zener Voltage	15V
Diode Configuration	Single
Mounting Type	Through Hole
Number of Elements per Chip	1
Maximum Power Dissipation	5W
Zener Type	Voltage Regulator
Zener Voltage Tolerance	5%
Pin Count	2
Test Current	75mA
Maximum Zener Impedance	2.5Ω
Maximum Reverse Leakage Current	1μA
Dimensions	3.68 (Dia.) x 8.89mm
Operating Temperature	+60°C to +200°C

TECHNICAL DRAWING

Output to Trigger input on
Side Detection kit



Input from Trigger Feed eg Indicator +ve
which has unwanted voltage

