





# SCHOTTKY BARRIER BRIDGE RECTIFIER

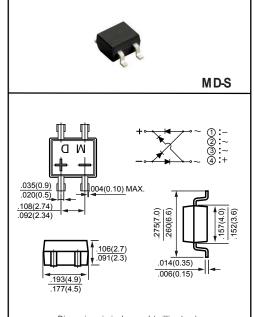
VOLTAGE 40 Volts CURRENT 2.0 Ampere

### **FEATURES**

- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

## **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.134 gram



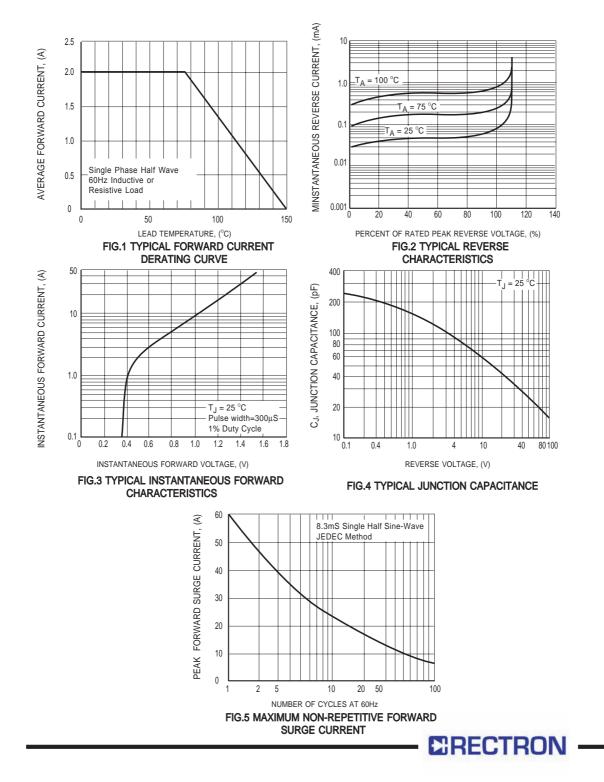
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Dimensions	; in	inches	and	(millimeters)
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REV:0

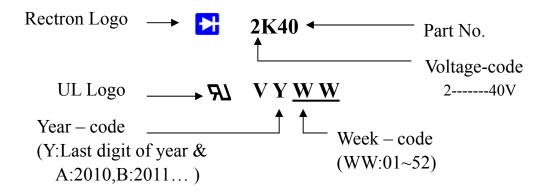
#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL 2KMD40S UNITS RATINGS Maximum Recurrent Peak Reverse Voltage V<sub>RRM</sub> 40 Volts Maximum RMS Voltage $V_{\text{RMS}}$ 28 Volts Maximum DC Blocking Voltage Volts 40 $\mathsf{V}_{\mathsf{D}\mathsf{C}}$ Maximum Average Forward Rectified Current 2.0 l<sub>o</sub> Amps at Derating Lead Temperature Peak Forward Surge Current 8.3 ms single half sine-wave 60 IFSM Amps superimposed on rated load (JEDEC method) R<sub>OJA</sub> 50 Typical Thermal Resistance (Note 1) °C/W R<sub>OJL</sub> 15 Typical Junction Capacitance (Note 3) 110 рF C. Operating Temperature Range ТJ 150 <sup>0</sup> C ٥C Storage Temperature Range $\mathsf{T}_{\mathsf{STG}}$ -55 to + 150 ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted) CHARACTERISTICS SYMBOL 2KMD40S UNITS Maximum Instantaneous Forward Voltage at 2.0 A DC 0.5 Volts VF Maximum Average Reverse Current @T<sub>A</sub> = 25°C 50 uА $I_{\mathsf{R}}$ at Rated DC Blocking Voltage @T<sub>A</sub> = 100°C 2 mΑ 2012-02

NOTES: 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".



## RATING AND CHARACTERISTICS CURVES (2KMD40S)

# **Marking Description**



# **DISCLAIMER NOTICE**

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