





SCHOTTKY BARRIER BRIDGE RECTIFIER

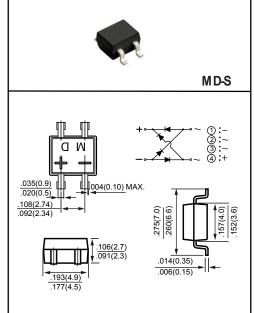
VOLTAGE RANGE 20 TO 60 Volts CURRENT 1.0 Ampere

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)

200

2

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL UNITS RATINGS KMD20S KMD30S KMD40S KMD50S KMD60S Maximum Recurrent Peak Reverse Voltage V_{RRM} 20 30 40 50 60 Volts Maximum RMS Voltage V_{RMS} 14 21 28 35 42 Volts Maximum DC Blocking Voltage 20 30 50 60 Volts 40 V_{DC} Maximum Average Forward Rectified Current 1.0 l_o Amps at Derating Lead Temperature Peak Forward Surge Current 8.3 ms single half sine-wave 40 IFSM Amps superimposed on rated load (JEDEC method) R_{OJA} 50 Typical Thermal Resistance (Note 1) °C/W R_{OJL} 15 Typical Junction Capacitance (Note 3) рF C. 110 Operating Temperature Range ТJ 150 ⁰ C ٥C Storage Temperature Range T_{STG} -55 to + 150 ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted) KMD20S THRU KMD40S CHARACTERISTICS SYMBOL KMD50S THRU KMD60S UNITS Maximum Instantaneous Forward Voltage at 1.0 A DC 0.55 0 70 Volts VF

200

2

at Rated DC Blocking Voltage @T_A = 100°C

Maximum Average Reverse Current

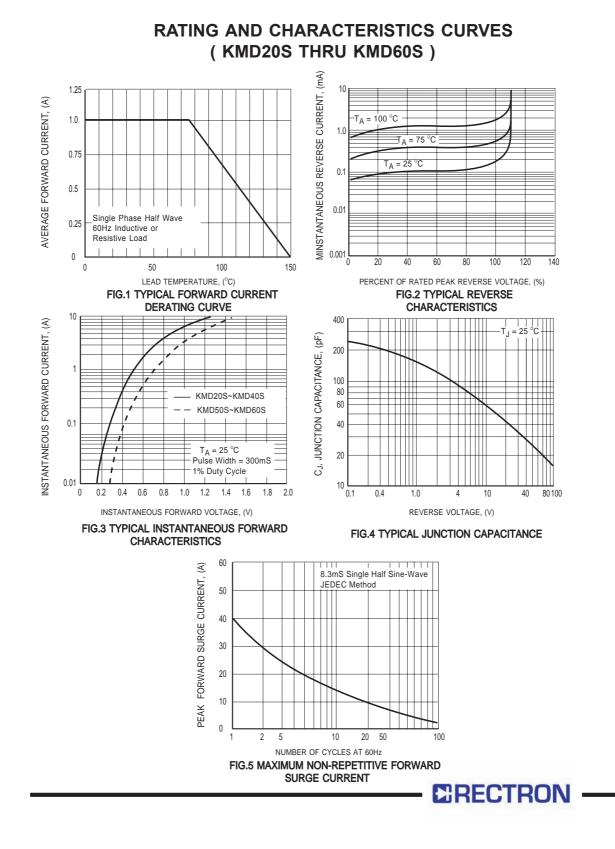
NOTES: 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

@T_A = 25°C

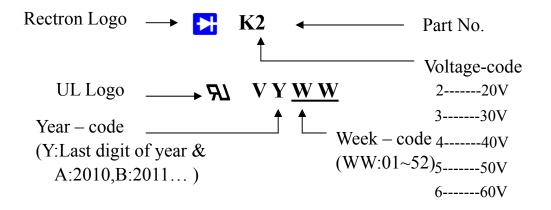
 I_{R}

mΑ 2012-02 REV:0

uА



Marking Description



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