

# **2KMD80S THRU** 2KMD200S

### SCHOTTKY BARRIER BRIDGE RECTIFIER

#### VOLTAGE RANGE 80 TO 200 Volts CURRENT 2.0 Ampere

### **FEATURES**

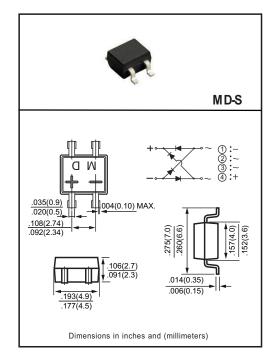
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

#### **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.



#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	2KMD80S	2KMD100S	2KMD150S	2KMD200S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	2.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	I <sub>FSM</sub> 60				Amps
Typical Current Squared Time	I <sup>2</sup> T	14.94				A <sup>2</sup> S
Typical Thermal Resistance (Note 1)	RθJA	50				
Typical Thermal Nesistance (Note 1)	R <sub>θJL</sub>	15				
Typical Junction Capacitance (Note 3)	CJ	110				
Operating Temperature Range	TJ	150				O°
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150				٥C

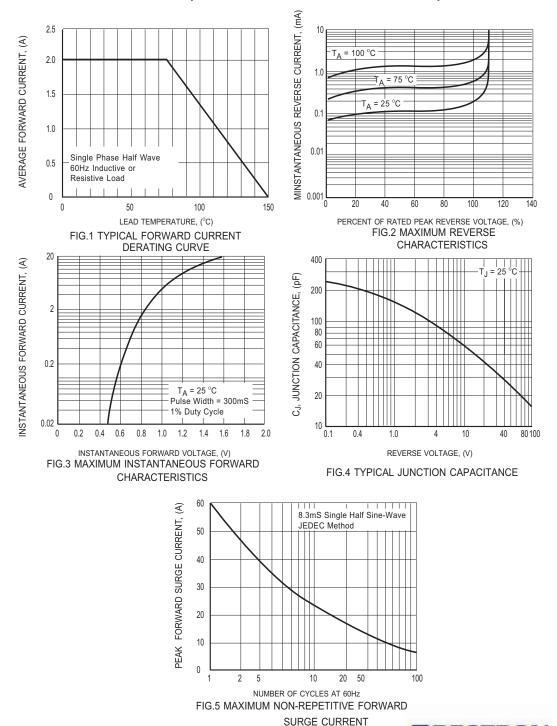
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIS	STICS	SYMBOL	2KMD80S THRU 2KMD200S	
Maximum Instantaneous Forward Voltage	e at 2.0 A DC	VF	0.85	Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	-	200	uA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R	2	

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)".

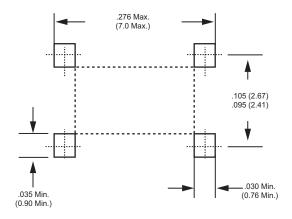
2012-02 REV:0

# RATING AND CHARACTERISTICS CURVES (2KMD80S THRU 2KMD200S)





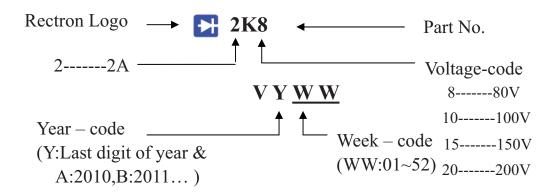
# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MD-S	-T	500	2,000			178	390*205*310	16,000	
MD-S	-W	3,000	6,000			330	360*355*360	48,000	15.50

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