

## **2KMD20S THRU 2KMD60S**

### SCHOTTKY BARRIER BRIDGE RECTIFIER

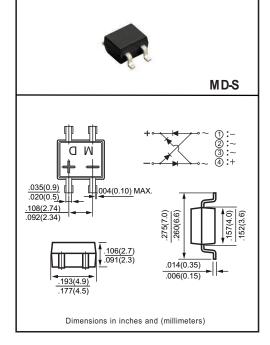
VOLTAGE RANGE 20 TO 60 Volts CURRENT 2.0 Ampere

### **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



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

RATINGS	SYMBOL	2KMD20S	2KMD30S	2KMD40S	2KMD50S	2KMD60S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	1 1- 1			2.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	P I <sub>FSM</sub> 60					Amps	
Typical Current Squared Time	I <sup>2</sup> T	14.94					
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	50					
Typical Thermal Resistance (Note 1)	Røjl	15					
Typical Junction Capacitance (Note 3)	CJ	110					
Operating Temperature Range	TJ	-55 to + 150					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150					٥C

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

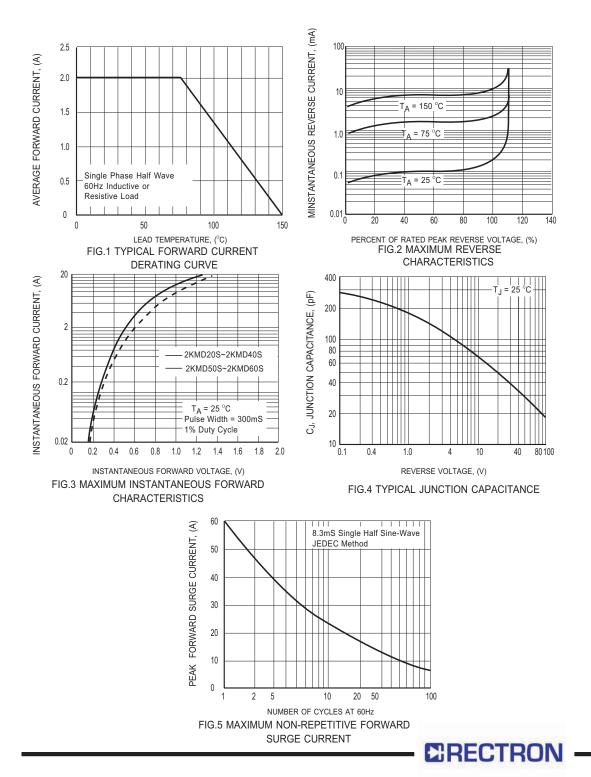
CHARACTERIS	SYMBOL	2KMD20S	2KMD30S	2KMD40S	2KMD50S	2KMD60S	UNITS	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.55			0.60		Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	-	200					
at Rated DC Blocking Voltage	@T <sub>A</sub> = 150°C	IR I	10					

NOTES: 1. Thermal Resistance: At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

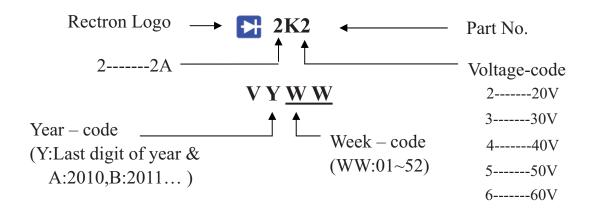
3. "ROHS compliant".

2019-05 REV:C

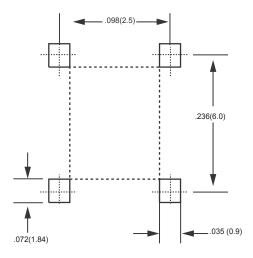
## RATING AND CHARACTERISTICS CURVES (2KMD20S THRU 2KMD60S)



# **Marking Description**



# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# 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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