

2KMD20S THRU 2KMD60S

SCHOTTKY BARRIER BRIDGE RECTIFIER

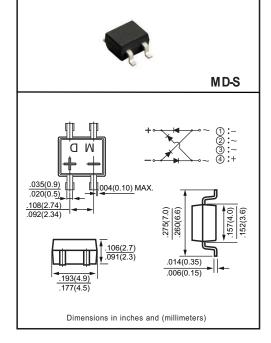
VOLTAGE RANGE 20 TO 60 Volts CURRENT 2.0 Ampere

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 _{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I _O	l ₀ 2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	SM 60					Amps
Typical Current Squared Time	I ² T				A ² S		
Typical Thermal Resistance (Note 1)	R _{θJA}	50					
Typical Thermal Resistance (Note 1)	Røjl	15					
Typical Junction Capacitance (Note 3)	CJ	110					
Operating Temperature Range	TJ	-55 to + 150					٥C
Storage Temperature Range	T _{STG}	-55 to + 150					°C

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

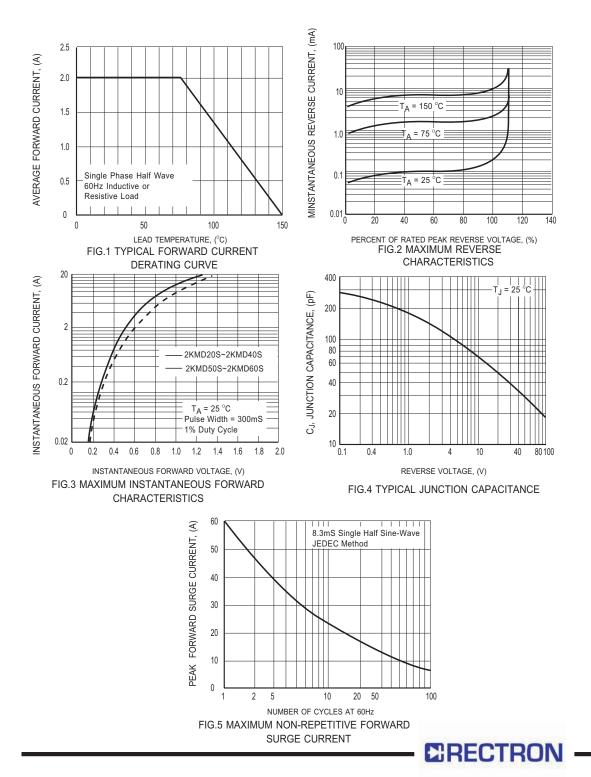
CHARACTERIS	SYMBOL	2KMD20S	2KMD30S	2KMD40S	2KMD50S	2KMD60S	UNITS	
Maximum Instantaneous Forward Voltage	V _F	0.55			0.60		Volts	
Maximum Average Reverse Current	@T _A = 25°C	-	200					
at Rated DC Blocking Voltage	@T _A = 150°C	I IR	10					

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

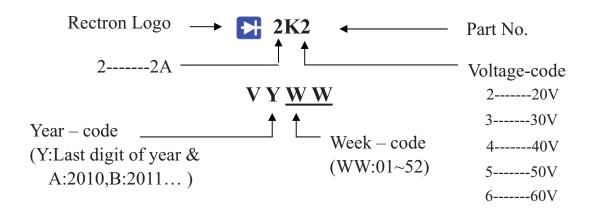
3. "ROHS compliant".

2019-05 REV:C

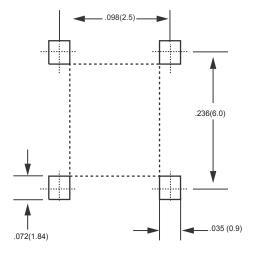
RATING AND CHARACTERISTICS CURVES (2KMD20S THRU 2KMD60S)



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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