

2KMD80SJ **THRU** 2KMD200SJ



SCHOTTKY BARRIER BRIDGE RECTIFIER

VOLTAGE RANGE 80 TO 200 Volts CURRENT 2.0 Ampere

FEATURES

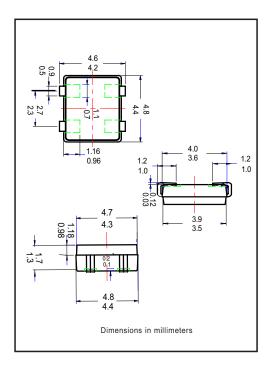
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

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	2KMD80SJ	2KMD100SJ	2KMD150SJ	2KMD200SJ	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	80 100		150	200	Volts
Maximum RMS Voltage	V _{RMS}	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	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 _{FSM}	60				Amps
Typical Thermal Resistance (Note 1)	R _{OJA}	50				°C/W
Typical Thermal Nesistance (Note 1)	R⊚JL	15				
Typical Junction Capacitance (Note 3)	CJ	110			pF	
Operating Temperature Range	TJ	150				٥C
Storage Temperature Range	T _{STG}	-55 to + 150				٥C

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

CHARACTERI	STICS	SYMBOL	2KMD80SJ THRU 2KMD200SJ	UNITS
Maximum Instantaneous Forward Voltag	e at 2.0 A DC	V _F	0.85	Volts
Maximum Average Reverse Current	@T _A = 25°C	-	200	uA
at Rated DC Blocking Voltage	@T _A = 100°C	IR	2	mA

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)".

2012-03 REV:A

RATING AND CHARACTERISTICS CURVES (2KMD80SJ THRU 2KMD200SJ)

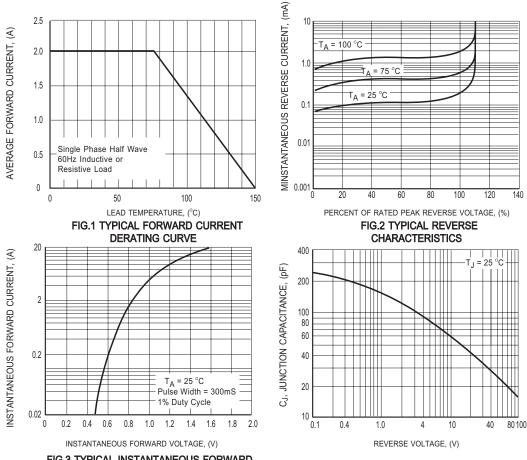


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 TYPICAL JUNCTION CAPACITANCE

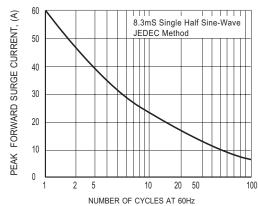
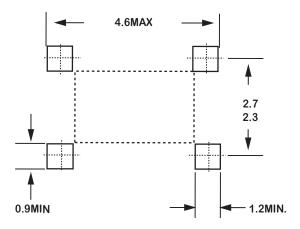


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



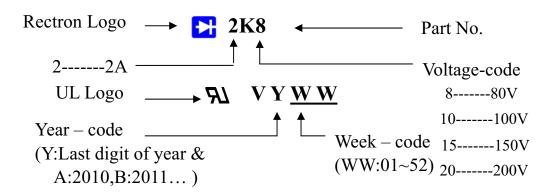
Mounting Pad Layout



Dimensions in millimeters



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MDSJ	-T	500			178	390*205*310	16,000	
MDSJ	-W	3,000			330	355*360*350	48,000	15.50



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