



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 capability
- * High reliability

MECHANICAL DATA

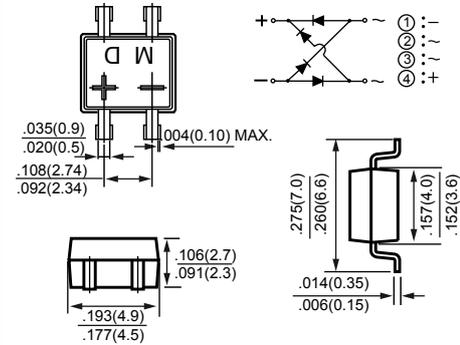
- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-0
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.134 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



MDS



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

RATINGS	SYMBOL	2KMD80S	2KMD100S	2KMD150S	2KMD200S	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	I_O	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)	$R_{\theta JA}$	50				°C/W
	$R_{\theta JL}$	15				
Typical Junction Capacitance (Note 3)	C_J	110				pF
Operating Temperature Range	T_J	150				°C
Storage Temperature Range	T_{STG}	-55 to + 150				°C

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

CHARACTERISTICS	SYMBOL	2KMD80S THRU 2KMD200S				UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC	V_F	0.85				Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I_R	@ $T_A = 25^\circ\text{C}$	200			uA
		@ $T_A = 100^\circ\text{C}$	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)".

RATING AND CHARACTERISTICS CURVES (2KMD80S THRU 2KMD200S)

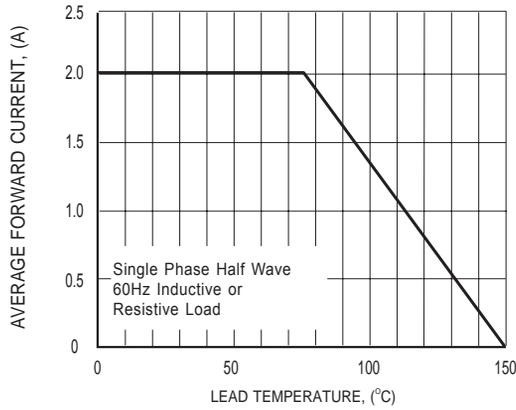


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

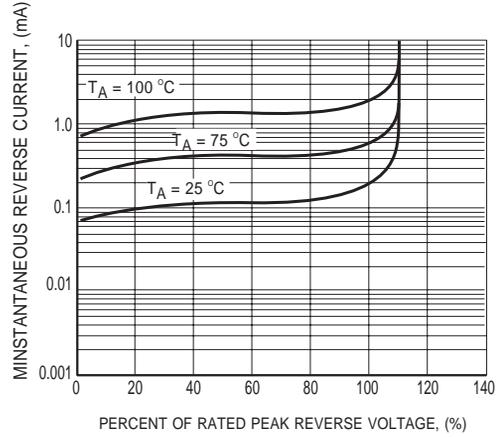


FIG.2 TYPICAL REVERSE CHARACTERISTICS

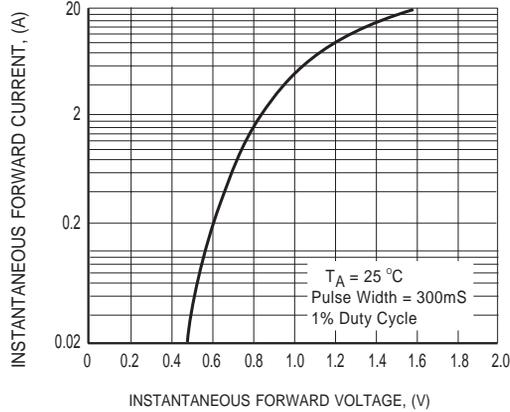


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

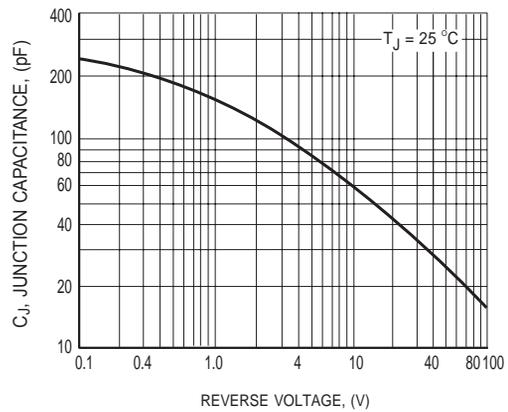


FIG.4 TYPICAL JUNCTION CAPACITANCE

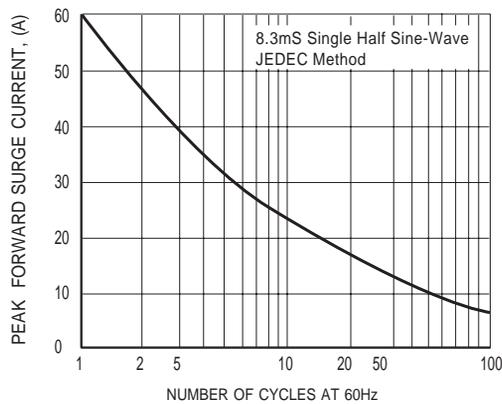
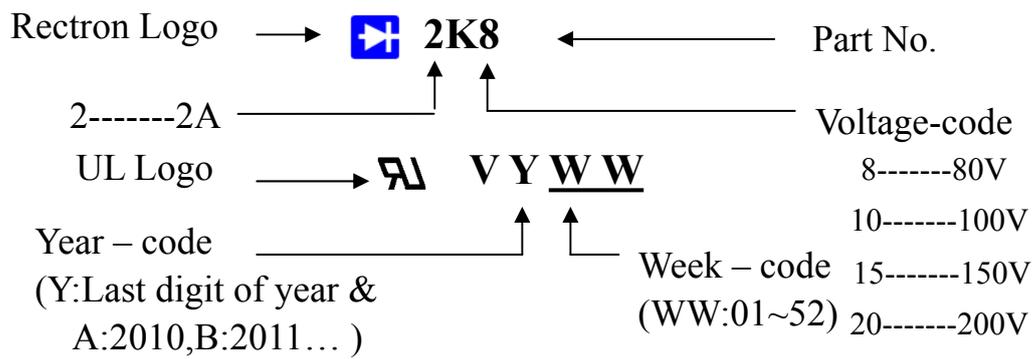


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Marking Description



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