



SCHOTTKY BARRIER BRIDGE RECTIFIER

VOLTAGE 40 Volts CURRENT 2.0 Ampere

FEATURES

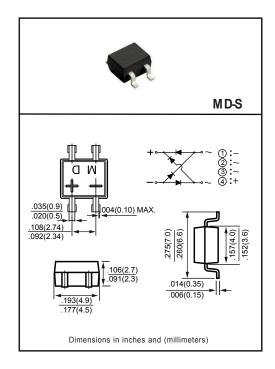
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

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	2KMD40S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	Volts
Maximum RMS Voltage	V _{RMS}	28	Volts
Maximum DC Blocking Voltage	V _{DC}	40	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	lo	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⊕JA	50	°C/W
	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

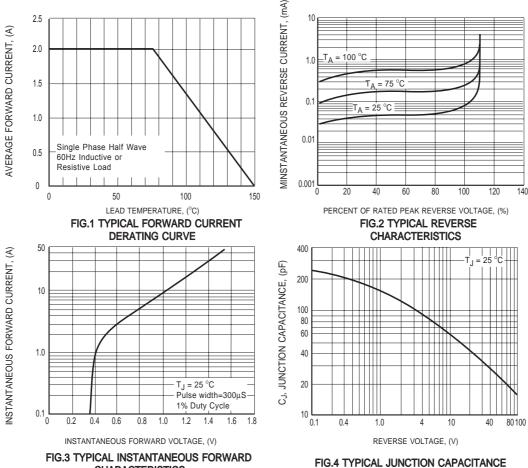
$\textbf{ELECTRICAL CHARACTERISTICS} (@\text{TA=25} \ ^{\circ}\text{C unless otherwise noted})$

CHARACTERISTICS		SYMBOL	2KMD40S	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC		V _F	0.5	Volts
Maximum Average Reverse Current	@T _A = 25°C		50	uA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	2	mΑ

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)".

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RATING AND CHARACTERISTICS CURVES (2KMD40S)



CHARACTERISTICS

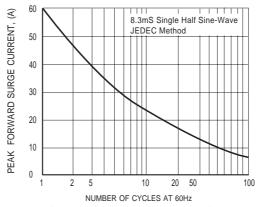
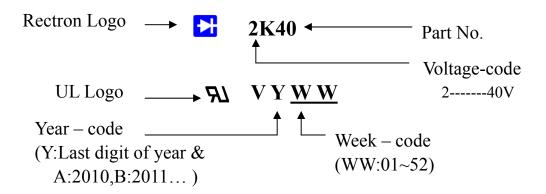


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Marking Description



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