



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RMB05S
THRU
RMB10S

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 0.5 Ampere

FEATURES

- * Surge overload rating - 30 Amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 0.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

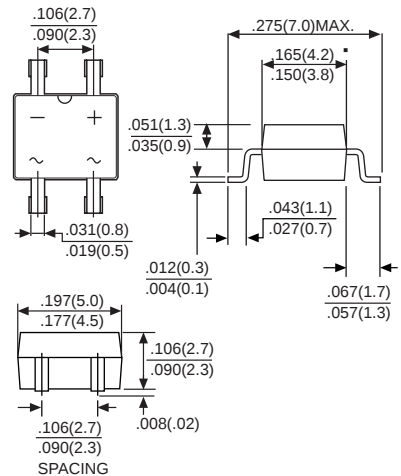
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



MBS



		SYMBOL	RMB05S	RMB1S	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 50 °C (Note 1)		IO	0.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	25							Amps
Maximum DC Forward Voltage Drop per Bridge Element at 0.5A DC		VF	1.3							Volts
Maximum Reverse Current at rated	@TA = 25°C	IR	5.0							μAmps
DC Blocking Voltage per element	@TA = 125°C		500							
Typical Junction Capacitance (Note 2)		CJ	9							pF
Typical Thermal Resistance (Note 3)		RθJC	35							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-50 to + 150							°C

NOTES: 1. Mounted on P.C. board.

2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to case.

RATING AND CHARACTERISTIC CURVES (RMB05S THRU RMB10S)

FIG.1
FORWARD CURRENT DERATING CURVE

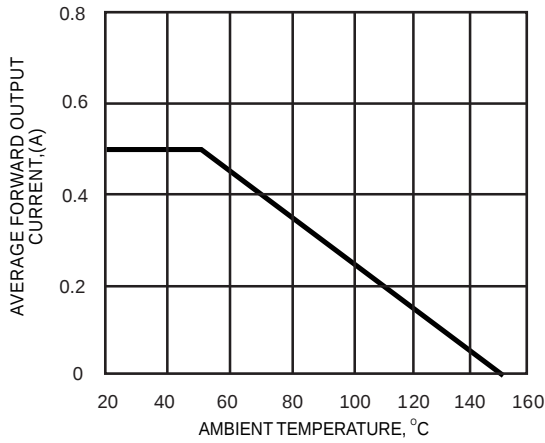


FIG.2
MAXIMUM NON-REPETITIVE
SURGE CURRENT

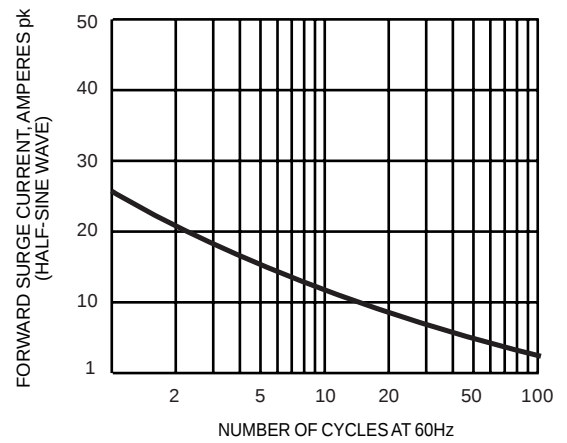


FIG.3
TYPICAL FORWARD CHARACTERISTICS

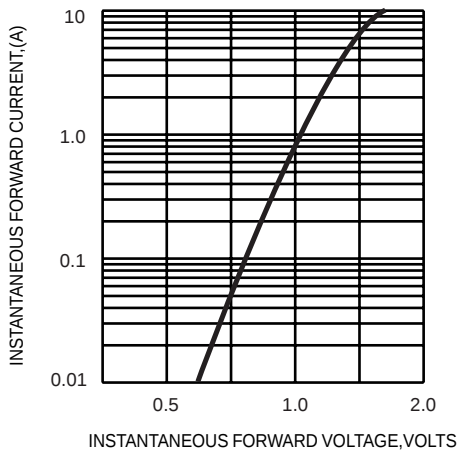


FIG.4
TYPICAL REVERSE CHARACTERISTICS

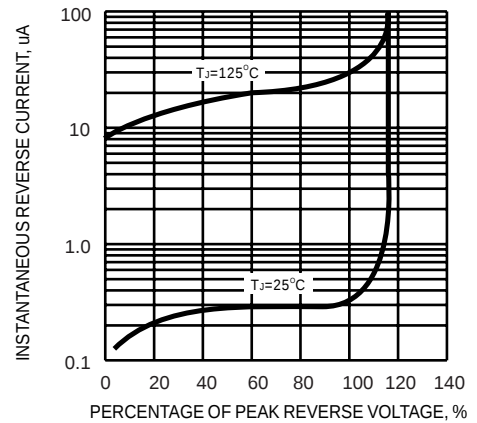
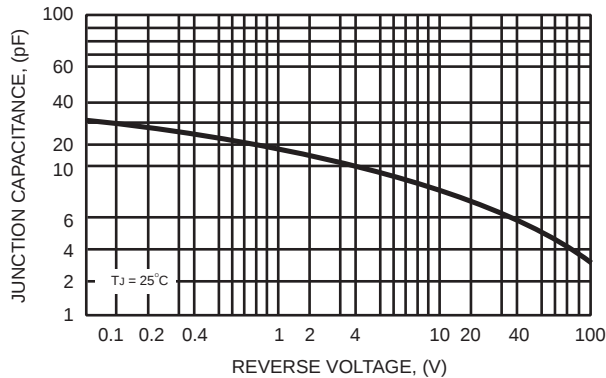


FIG. 5
TYPICAL JUNCTION CAPACITANCE



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