



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RMB12F
THRU
RMB16F

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY BRIDGE RECTIFIER

VOLTAGE RANGE - 200 to 600 Volts

CURRENT - 1.0 Ampere

FEATURES

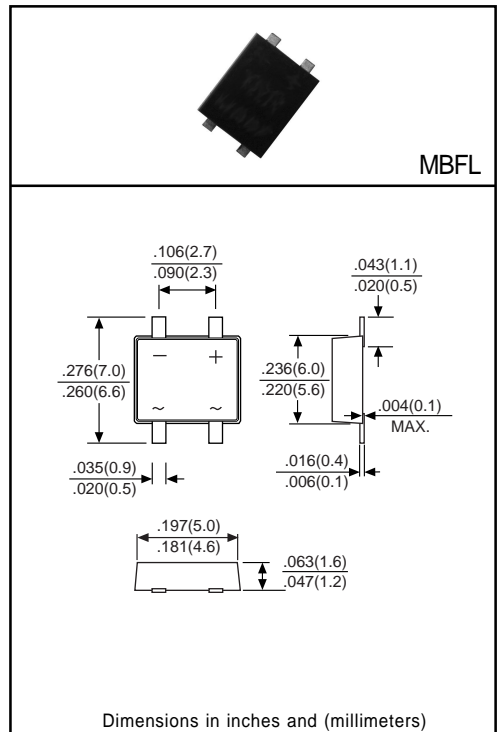
- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction
- * Low profile package
- * Low forward voltage drop
- * High surge capability

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: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



	SYMBOL	RMB12F	RMB14F	RMB16F	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	Volts
Maximum RMS Bridge Input Voltage	VRMS	140	280	420	Volts
Maximum DC Blocking Voltage	VDC	200	400	600	Volts
Maximum Average Forward Output Current at TA=30°C(Note 1)	Io	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			Amps
Maximum DC Forward Voltage Drop per Bridge Element at 1.0A DC	VF	1.3			Volts
Maximum Reverse Current at rated DC Blocking Voltage per element	@TA = 25°C	5.0			µAmps
	@TA = 125°C	100			
Maximum Reverse Recovery Time (Note 3)	trr	150	250		nS
Typical Thermal Resistance (Note 2)	RθJA	85			°C/W
Operating and Storage Temperature Range	TJ,TSTG	-50 to +150			°C

- NOTES: 1. Mounted on P.C. board with 4x(5x5mm²) copper pad.
2. Thermal resistance junction to ambient.
3. Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A.
4. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

RATING AND CHARACTERISTIC CURVES (RMB12F THRU RMB16F)

FIG. 1
MAXIMUM NON-REPETITIVE SURGE CURRENT

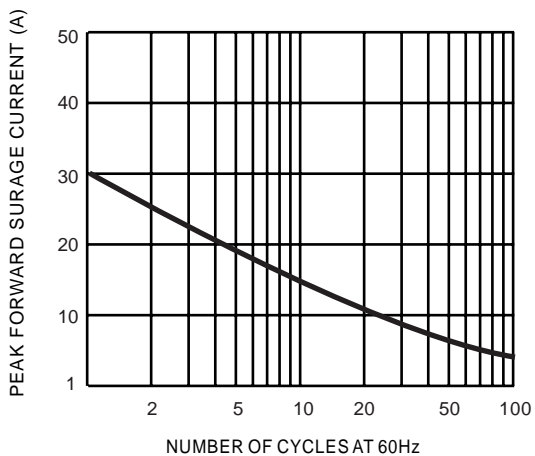


FIG. 2
DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

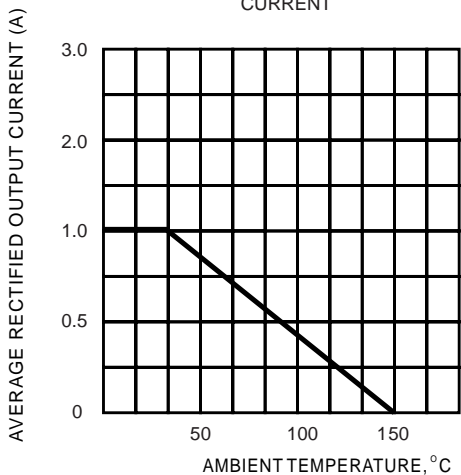


FIG. 3
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

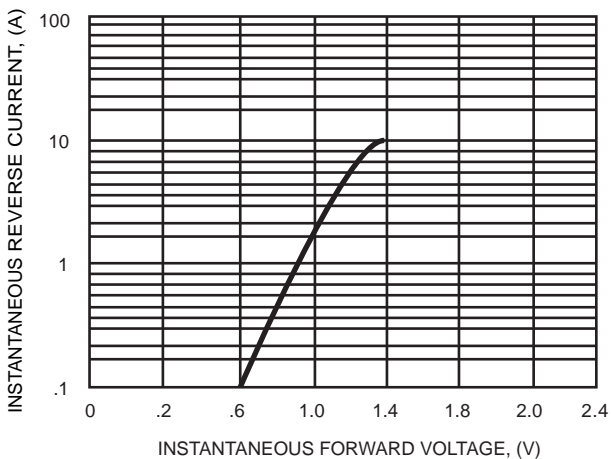
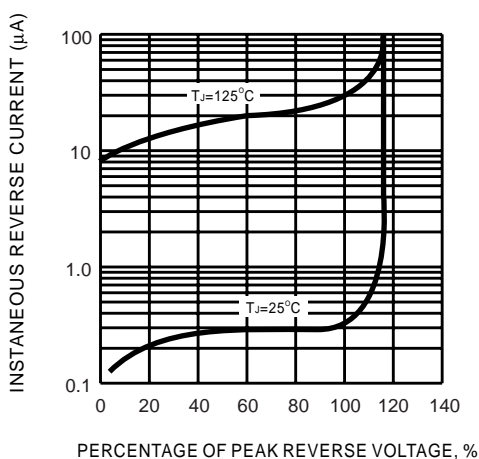


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



DC COMPONENTS CO., LTD.