

RMD01

**SINGLE PHASE GLASS PASSIVATED
FAST RECOVERY
SURFACE MOUNT BRIDGE RECTIFIER
VOLTAGE: 100V CURRENT:0.8A**



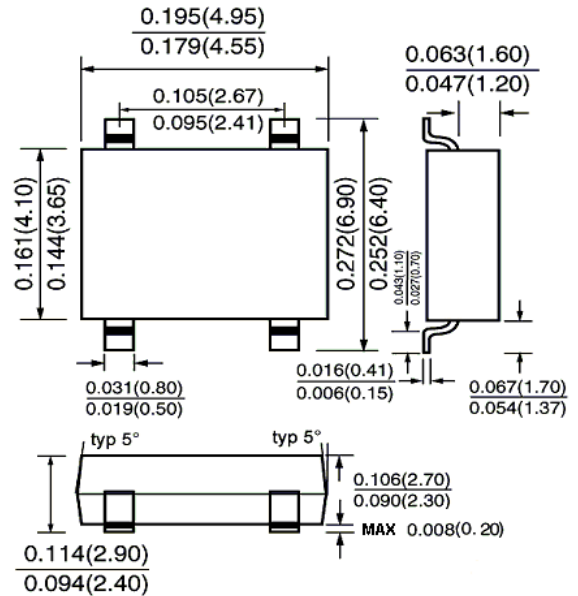
FEATURE

For surface mount application
Reliable low cost construction utilizing molded plastic
Technique
Surge overload rating: 30A peak

MECHANICAL DATA

Terminal: Plated leads solderable per
MIL-STD 202E, method 208C
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

MDF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	RMD01	Units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	100	V
Maximum RMS Voltage	V _{rms}	70	V
Maximum DC blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current at Ta =40°C	I _{f(av)}	0.8	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30.0	A
Maximum Instantaneous Forward Voltage at forward current 0.4A	V _f	1.3	V
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150	nS
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	5.0 500.0	μA uA
Typical Junction Capacitance (Note 2)	C _j	15.0	pF
Storage and Operating Junction Temperature	T _j , T _{stg}	-55 to +150	°C

Note:

1. Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
2. Measured at 1.0 MHz and applied voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES RMD01

FIG.1 - FORWARD CURRENT DERATING CURVE

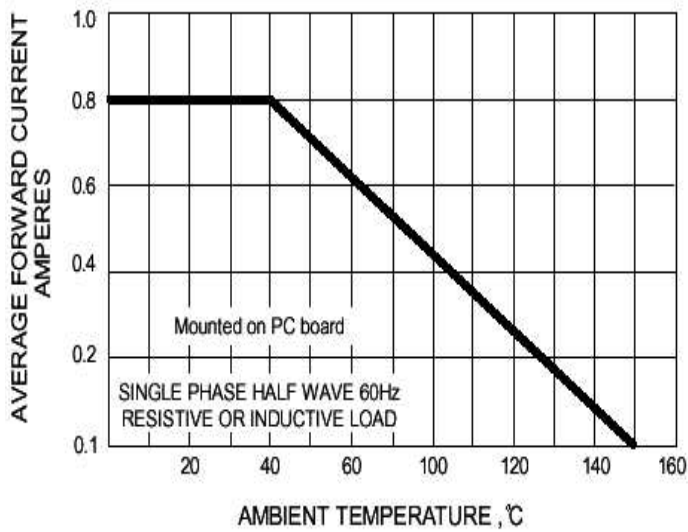


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

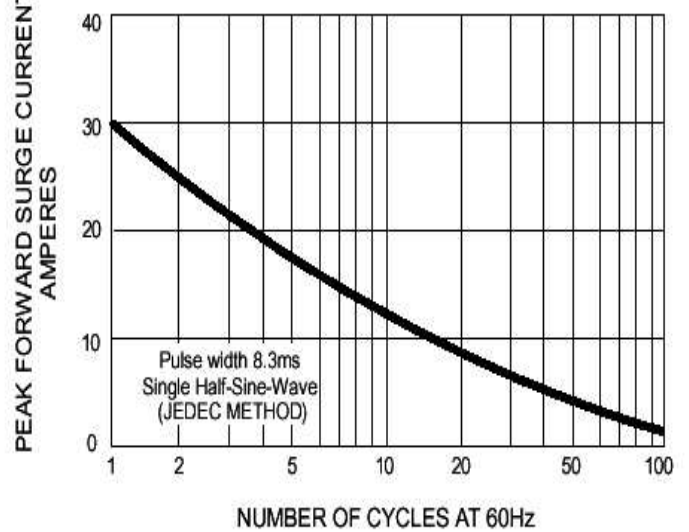


FIG.3 - TYPICAL JUNCTION CAPACITANCE

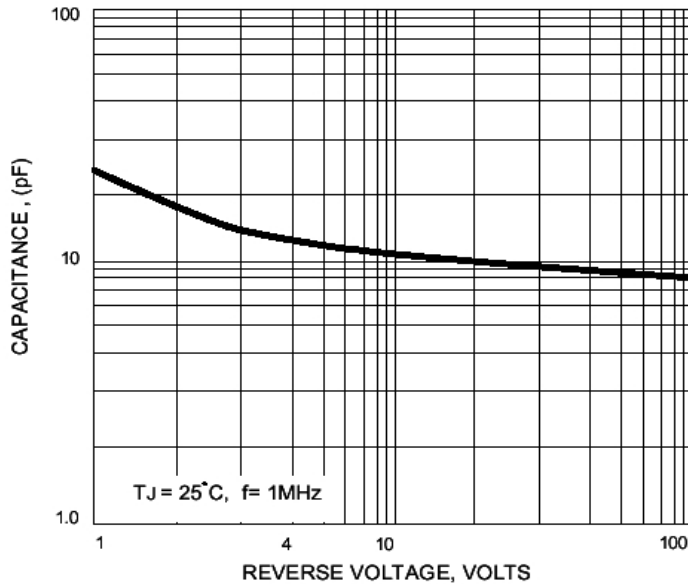


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

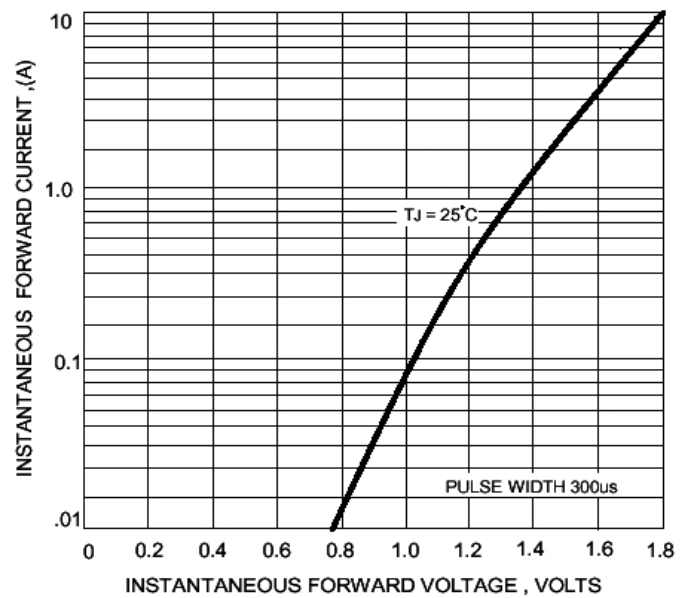


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

