R2MF

2.0AMPS . GLASS PASSIVATED FAST RECOVERY RECTIFIERS

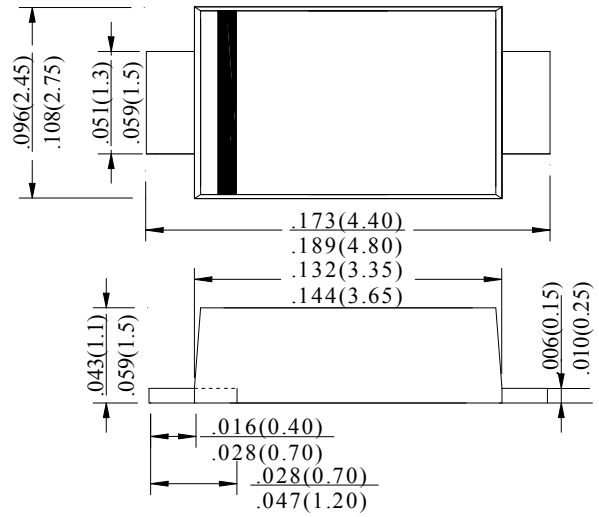
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High temperature soldering guaranteed:
260℃/10 seconds at terminals.
. For surface mounted application
. Easy pick and place

MECHANICAL DATA

. Case: Molded plastic
. Epoxy: UL94V-0 rate flame retardant
. Lead: MIL-STD- 202E, Method 208 guaranteed
. Polarity: Marking band denotes cathode end
. Packaging:12mm tape per EIA STD RS-481
. Mounting position: Any

SMF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYMBOL	R2MF	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current at T_A =55°C	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0	A
Maximum Forward Voltage at 2.0A DC	V_F	1.3	V
Maximum DC Reverse Current @T_A =25°C	I_R	5.0	μA
at rated DC blocking voltage @T_A =125°C		100.0	
Maximum Reverse Recovery Time (Note 1)	t_{rr}	500	nS
Typical Junction Capacitance (Note2)	Cj	30	pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	50	°C /W
Storage Temperature	T_{STG}	-55 to +150	°C
Operation Junction Temperature	T_J	-55 to +150	°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Measured on P. C. Board with 0.2×0.2″(5.0×5.0mm) Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (R2MF)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

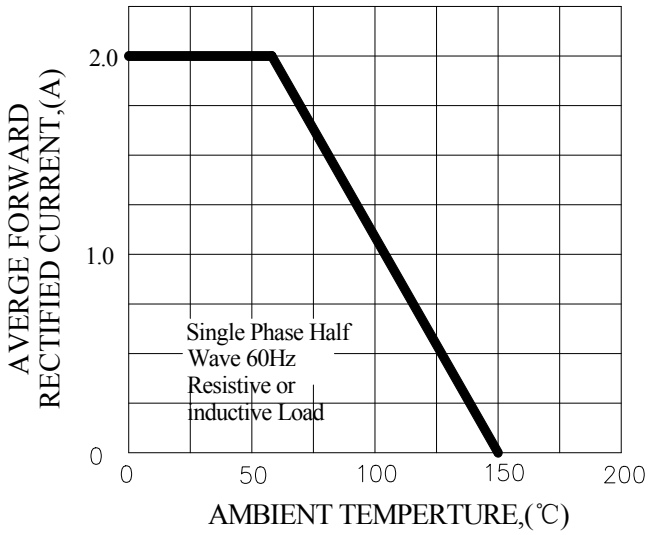


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

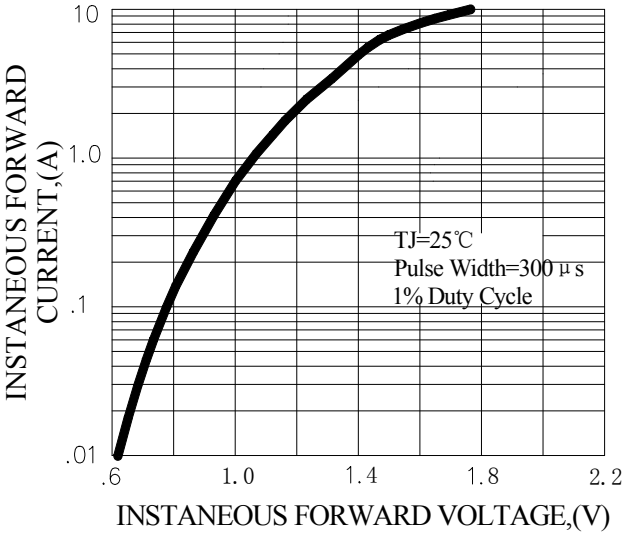


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

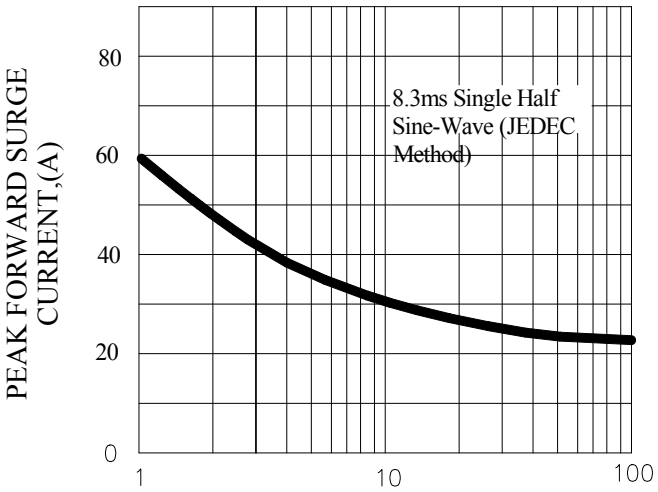


FIG.4-TYPICAL REVERSE CHARACTERISTICS

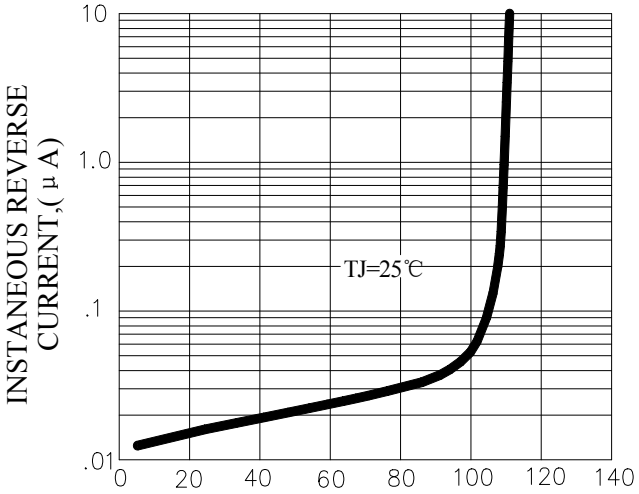
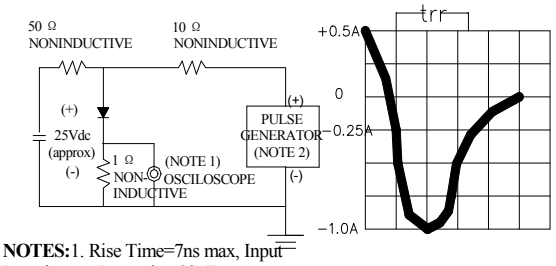


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



NOTES:1. Rise Time=7ns max, Input Impedance= 1 megohm.22pF.
2. Rise Time=10ns max, Souce Impedance= 50 ohms.

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