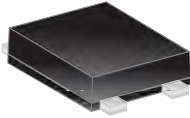


1.0 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS MD-F PACKAGE

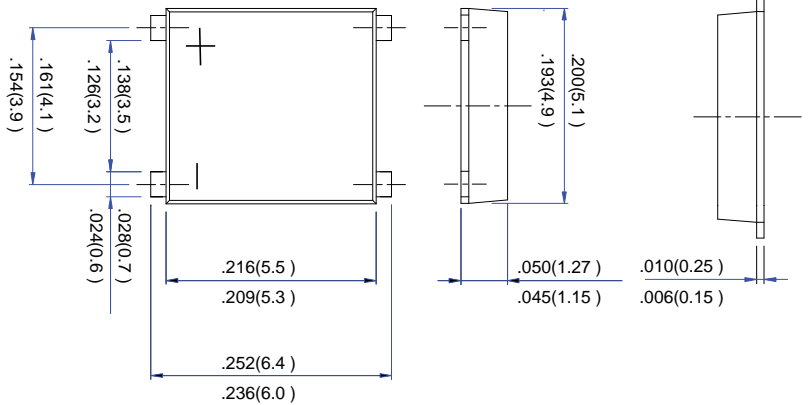


FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper

Pb-Free package is available

RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"



MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Epoxy: Device has UL flammability classification 94V-0
- Polarity: Polarity symbol marked on body

Dimensions in inches and(millimeters)

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%

PARAMETER	SYMBOL	MD1F	MD2F	MD3F	MD4F	MD5F	MD6F	MD7F	UNIT
Marking Code		MD1F	MD2F	MD3F	MD4F	MD5F	MD6F	MD7F	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_A=40^\circ\text{C}$ (Note 1)	I_F	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30.0							A
Current squared time $t < 8.3\text{ms}$, $T_a = 25^\circ\text{C}$	i^2t	3.75							A^2s
Maximum Forward Voltage Drop Per Bridge Element at 1A Peak	V_F	1.1							V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$	I_R	5 500							uA mA
Typical Junction Capacitance Per Element (Note1)	CJ	30.0							Pf
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	75.0							$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to case

**1.0 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS
MD-F PACKAGE**

FIG.1-FORWARD CURRENT DERATING CURVE

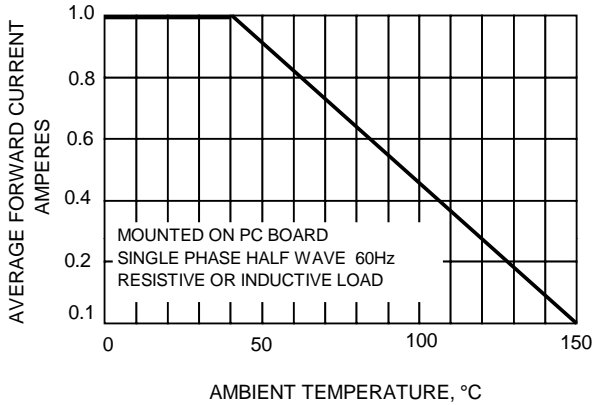


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

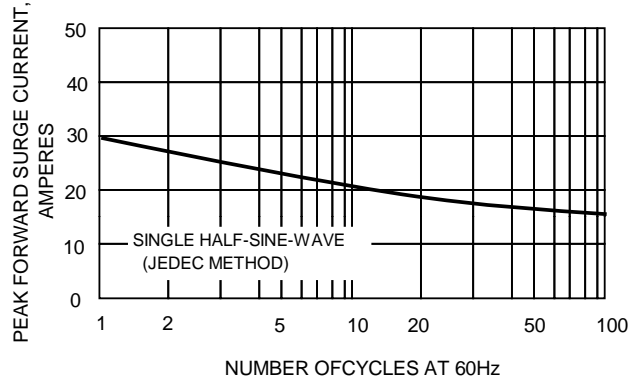


FIG.3-TYPICAL JUNCTION CAPACITANCE

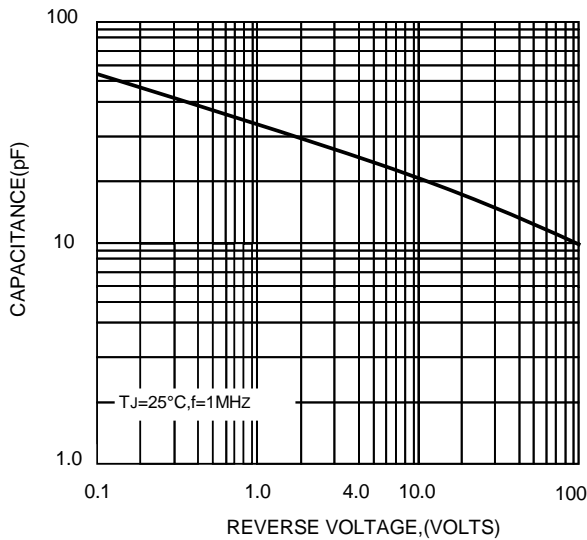


FIG.4-TYPICAL FORWARD CHARACTERISTICS

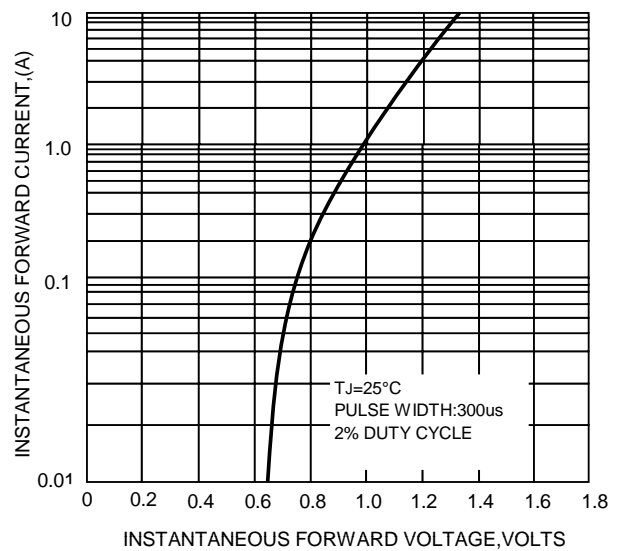
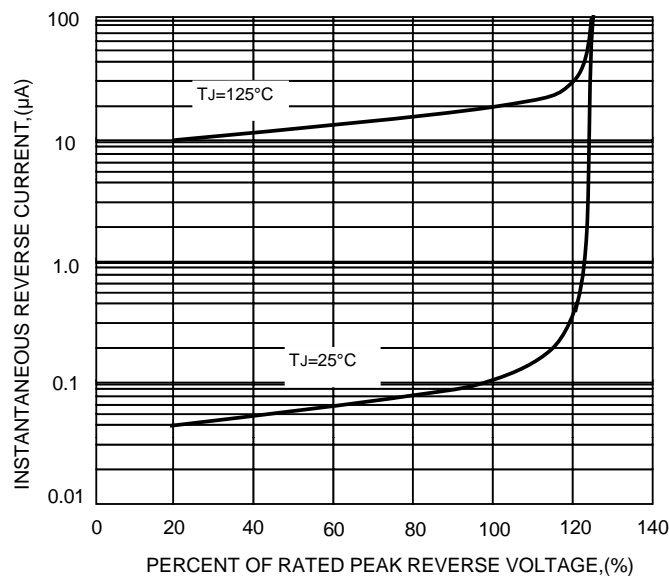


FIG.5-TYPICAL REVERSE CHARACTERISTICS





Ordering Information:

Device PN	Packing
Part Number-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 5 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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