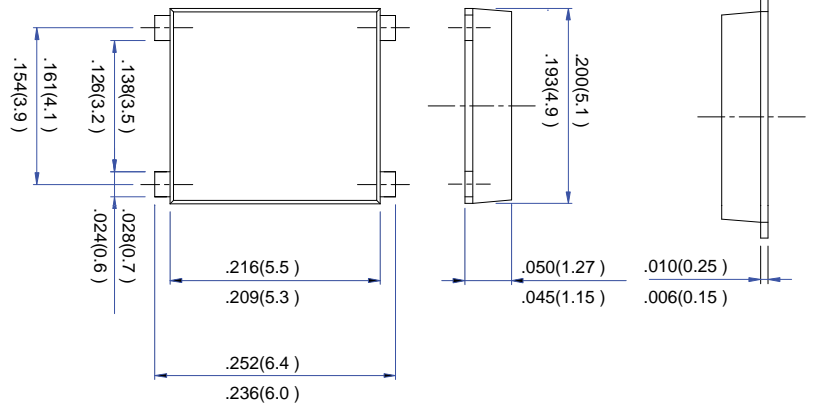
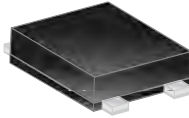




### 1.0 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS MD-F PACKAGE

#### 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



#### 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	UN T
Marking Code		MD1 F	MD2 F	MD3 F	MD4 F	MD5 F	MD6 F	MD7 F	
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 $t < 8.3\text{ms}$ , $T_a = 25^\circ\text{C}$	$I^2 t$	3.75							$\text{A}^2\text{s}$
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							$\mu\text{A}$ mA
Typical Junction Capacitance Per Element (Note1)	$C_J$	30.0							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	75.0							$^\circ\text{C} / \text{W}$
	$R_{\theta JC}$	45.0							$^\circ\text{C} / \text{W}$
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 ambient and junction to case

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

FIG.1-FORWARD CURRENT DERATING CURVE

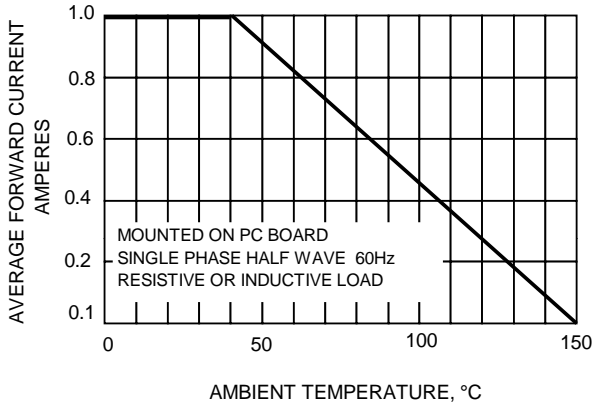


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

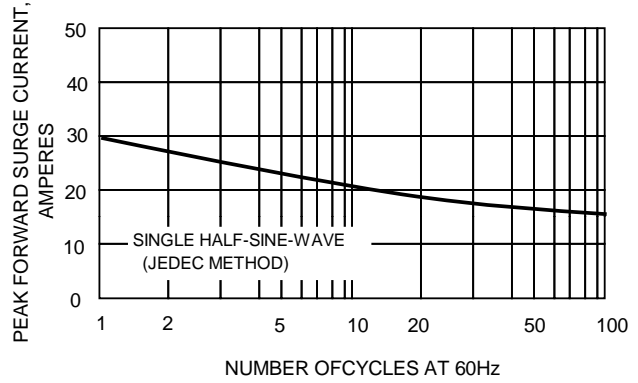


FIG.3-TYPICAL JUNCTION CAPACITANCE

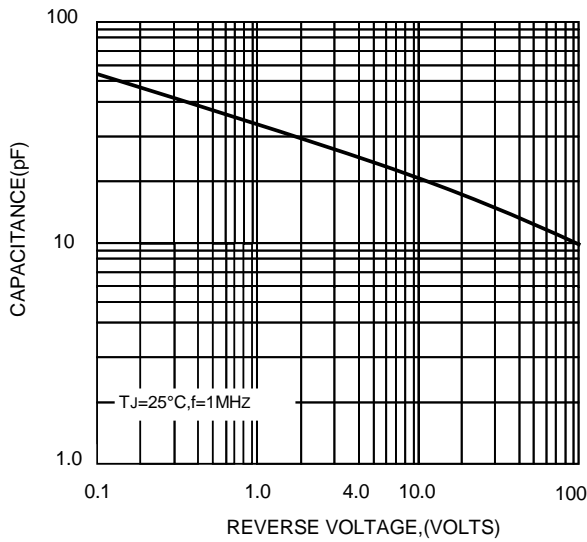


FIG.4-TYPICAL FORWARD CHARACTERISTICS

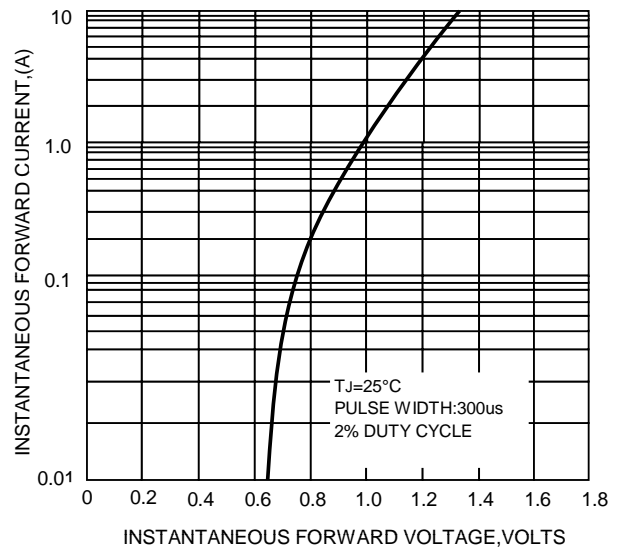
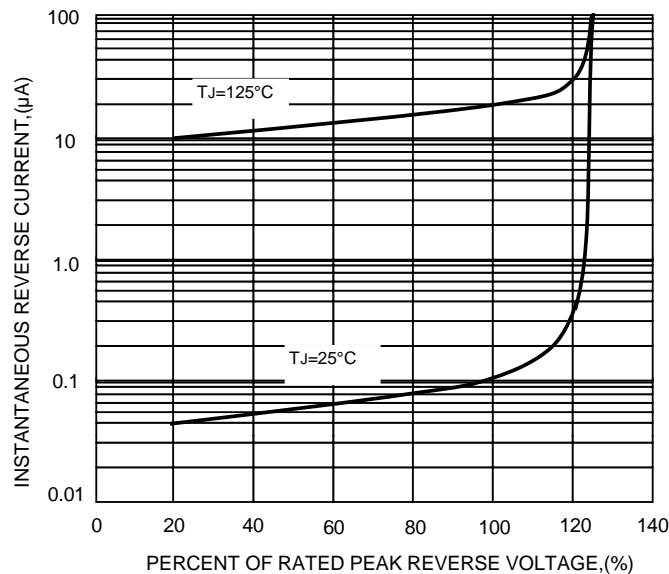


FIG.5-TYPICAL REVERSE CHARACTERISTICS





### Ordering Information:

Device PN	Packing
Part Number-T <sup>(1)</sup> G <sup>(2)</sup> -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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