WILLAS

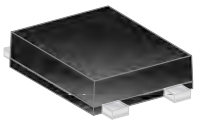
RoHS COMPLIANT

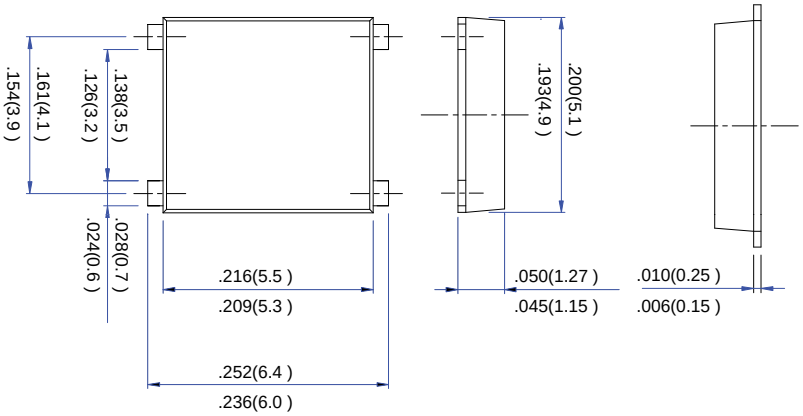
MD1F THRU MD7F

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-O
- 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 of 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°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 < 8.3ms , Ta = 25 °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°C at Rated DC Blocking Voltage @ T_J=125°C	I_R	5 500							uA mA
Typical Junction Capacitance Per Element (Note1)	CJ	30.0							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	75.0							°C / W
	$R_{\theta JC}$	45.0							°C / W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:
1.Measured at1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal resistance junction to ambient and junction to case

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FIG.1-FORWARD CURRENT DERATING CURVE

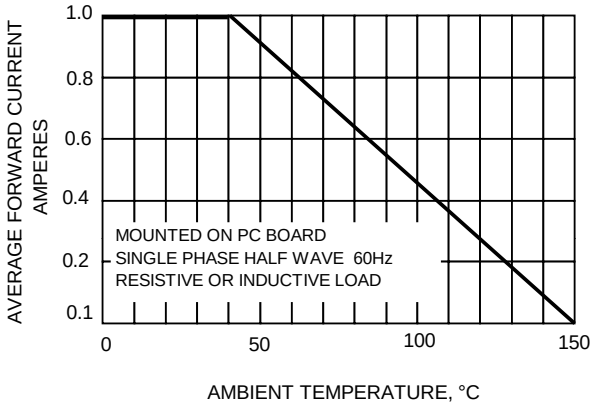


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

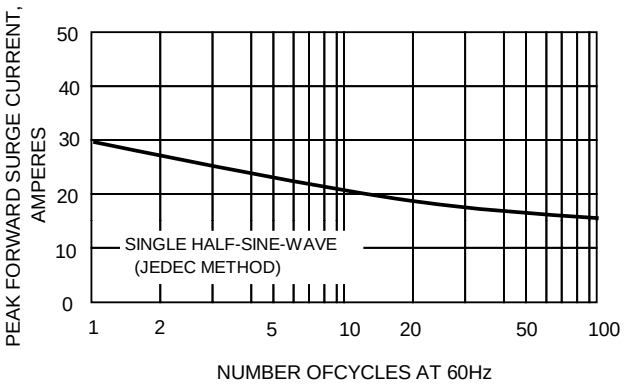


FIG.3-TYPICAL JUNCTION CAPACITANCE

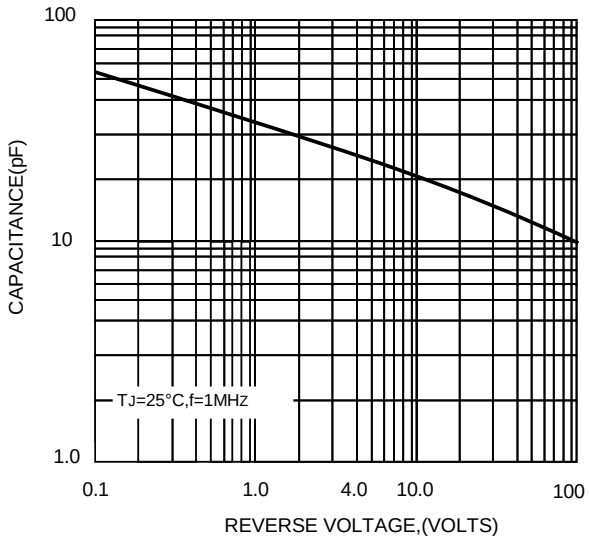


FIG.4-TYPICAL FORWARD CHARACTERISTICS

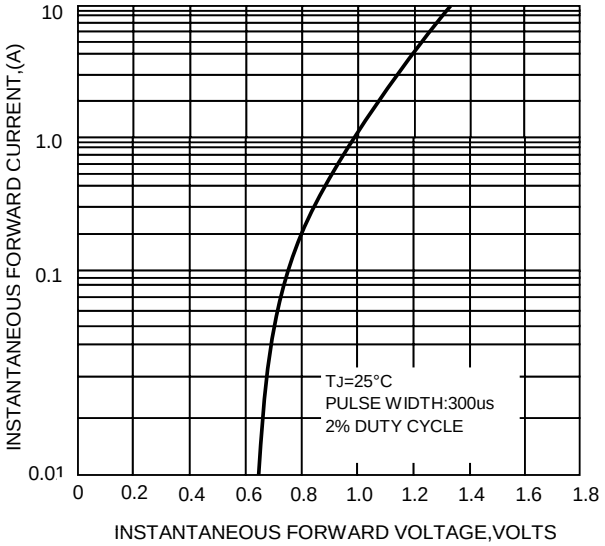
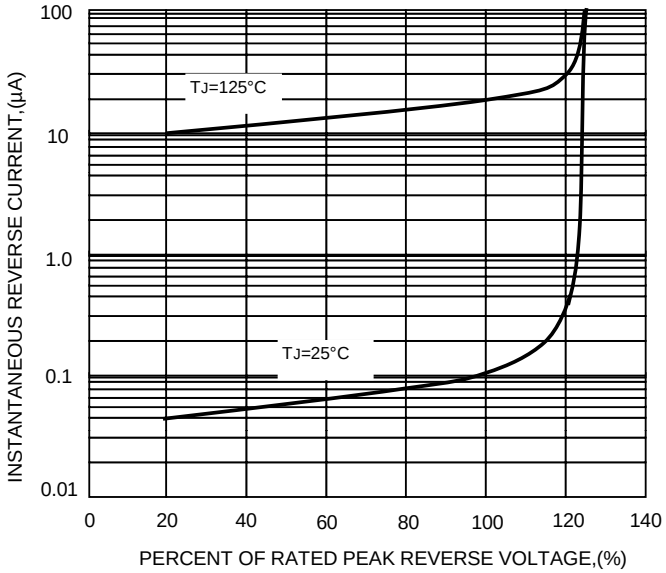


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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"