



MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE FAST RECOVERY BRIDGE RECTIFIER

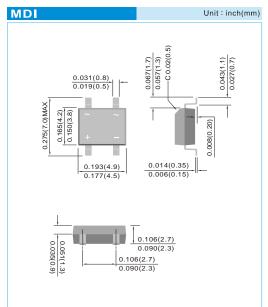
VOLTAGE 100 to 1000Volts | CURRENT | 0.5 Amperes

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating--30 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or marking on body
- Mounting Position: Any
- Weight: 0.0044 ounce, 0.1268 gram



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%

SYMBOL	R1S	R2S	R4S	R6S	R8S	R10S	UNITS
V _{RRM}	100	200	400	600	800	1000	V
V _{RMS}	70	140	280	420	560	700	V
V _{DC}	100	200	400	600	800	1000	V
I _{F(AV)}	0.5 0.8*						А
I _{FSM}		А					
l² t		A²t					
V _F	1.15						V
I _R	5.0 500						μА
C J	25						pF
t _{rr}		150		250	5	00	ns
R _{eja} R _{ejl}	85 20					°C / W	
T _J , T _{STG}	-55 to + 150					°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{F(AV)} \\ \\ I_{FSM} \\ \\ I^2t \\ \\ V_F \\ \\ I_R \\ \\ C_J \\ \\ t_{rr} \\ \\ R_{\theta JA} \\ R_{\theta JL} \\ \\ \end{array}$	V _{RRM} 100 V _{RMS} 70 V _{DC} 100 I _{F(AV)} I _{FSM} I ² t V _F I _R C _J t _{rr} R _{0JA} R _{0JL}	V _{RRM} 100 200 V _{RMS} 70 140 V _{DC} 100 200 I _{F(AV)} I _{FSM} I ² t V _F I _R C _J t _{rr} 150 R _{θJA} R _{θJL}	V _{RRM} 100 200 400 V _{RMS} 70 140 280 V _{DC} 100 200 400 I _{F(AV)} 0 0 I _{FSM} 3 3 I ² t 3.7 0 I _R 5 0 C _J 2 0 t _{rr} 150 0 R _{eJA} R _{eJL} 2 0 R _{eJA} R _{eJL} 2 0	V _{RRM} 100 200 400 600 V _{RMS} 70 140 280 420 V _{DC} 100 200 400 600 I _{F(AV)} 0.5 0.8* I _{FSM} 30 30 I ² t 3.735 1.15 I _R 5.0 500 C _J 25 t _{rr} 150 250 R _{eJA} R _{eJL} 85 20	V _{RRM} 100 200 400 600 800 V _{RMS} 70 140 280 420 560 V _{DC} 100 200 400 600 800 I _{F(AV)} 0.5 0.8* I _{FSM} 30 30 I ² t 3.735 3.735 V _F 1.15 5.0 I _R 500 500 C _J 25 50 R _{eJA} R _{eJL} 85 20 20	V _{RRM} 100 200 400 600 800 1000 V _{RMS} 70 140 280 420 560 700 V _{DC} 100 200 400 600 800 1000 I _{F(AV)} 0.5 0.8* I _{FSM} 30 3.735 V _F 1.15 1.15 I _R 5.0 500 C _J 25 500 R _{eJA} R _{eJL} 250 500

NOTES:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- 2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads
- 3. *R-load on alumina subtrate
- 4. Reverse Recovery Test Conditions : I_F=0.5A,I_R=1A,Irr=0.25A





RATING AND CHARACTERISTIC CURVES

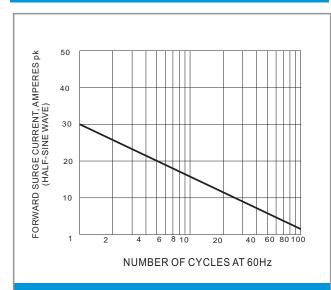


Fig. 1 MAXIMUM NON-REPETITIVE SURGE CURRENT

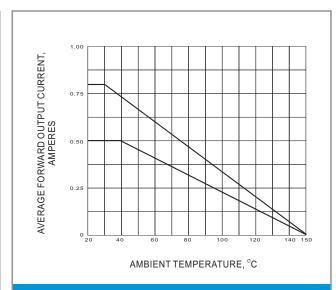
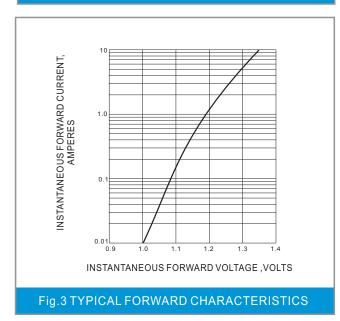


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



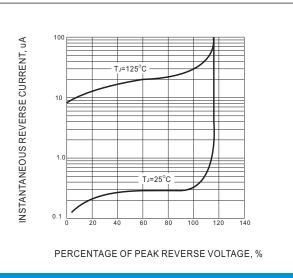
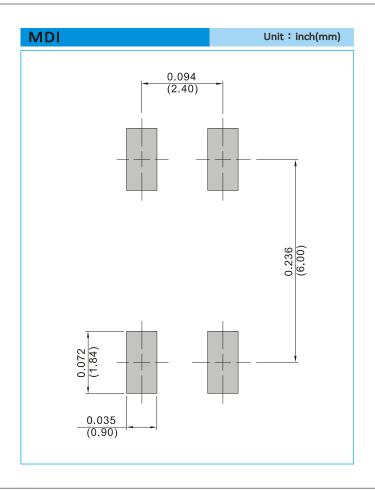


Fig.4 TYPICAL REVERSE CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDERINFORMATION

• Packing information

T/R - 3K per 13" plastic Reel





Part No_packing code_Version

R1S_R2_00001 R1S_R2_10001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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