



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

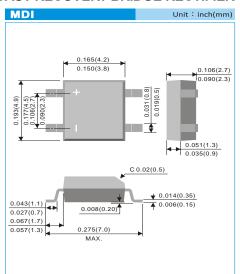
VOLTAGE 100 to 1000Volt CURRENT 0.5 Ampere

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 compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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
- 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%

PARAMETER	SYMBOL	R1S	R2S	R4S	R6S	R8S	R10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Current $T_A = 40^{\circ}C$ $T_A = 25^{\circ}C$ (Note 3)	I _{F(AV)}	0.5 0.8*						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						
l ² t Rating for fusing (t<8.35ms)	l²t		A²t					
Maximum Forward Voltage Drop per Bridge Element at 0.5A	V _F	1.15						V
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =125 °C	I _R	5.0 500						μА
Typical Junction capacitance (Note 1)	C		pF					
Maximum Recovery Time (Note 4)	t _{rr}		150		250	5	00	ns
Typical thermal resistance per leg ((Note 2)	R _{eja} R _{ejl}	85 20						°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						°C

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, I_r =0.25A





RATING AND CHARACTERISTIC CURVES

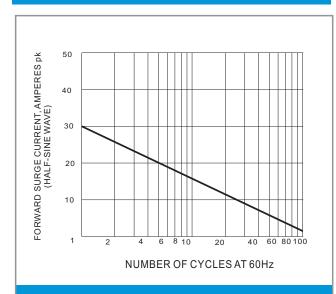


Fig. 1 MAXIMUM NON-REPETITIVE SURGE CURRENT

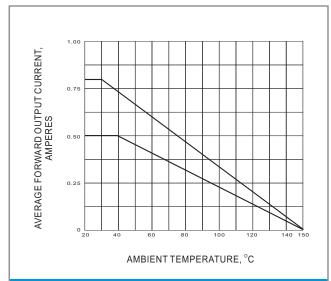
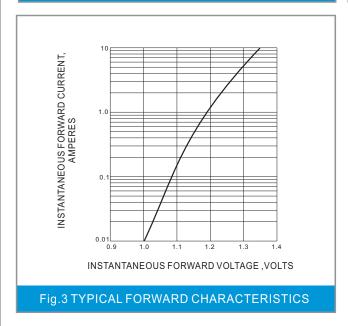


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



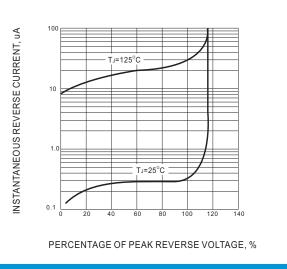
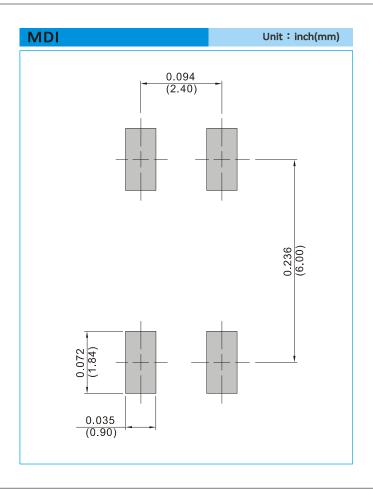


Fig.4 TYPICAL REVERSE CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel





Part No_packing code_Version

R1S_R2_00001

For example :



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)	Α	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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