

### MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

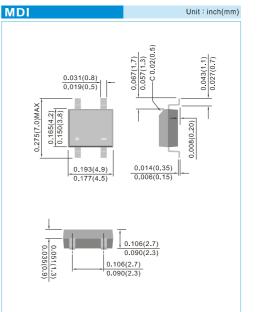
VOLTAGE 100 to 1000Volt CURRENT 0.8 Ampere

### Recongnized File # E111753

#### FEATURES

• Plastic material used carries Underwriters Laboratory recognition 94V-O

- Low leakage
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500
- Lead free in compliance with EU RoHS 2.0



#### **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	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>rms</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
Maximum Average Forward Current Ta=55°C Ta=25°C	I <sub>F(AV)</sub>	0.5 0.8						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	35						А
Power Dissipation at T <sub>A</sub> =25°C	PD	1.4					w	
I²t Rating For Fusing (t<8.35ms)	I²t	5.083						A²S
Maximum Forward Voltage Drop per Bridge Element at 0.5A	V <sub>F</sub>	1.0						V
Maximum DC Reverse Current at Rated DC T_=25°C Blocking Voltage T_=125°C	I <sub>R</sub>	5 500						μA
Typical Junction Capacitance (Note 1)	C	25					рF	
Typical Thermal Resistance (Note 2)	$R_{_{ extsf{ hetaJA}}} \ R_{_{ hetaJL}}$	85 20						°C / W
Operating Junction and Storage Temperature Range	T_J, T <sub>stg</sub>	-55 to +150					°C	

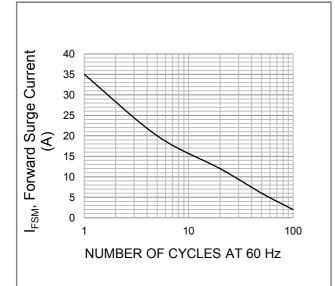
#### NOTES :

<sup>1.</sup> Measured at 1MHz and applied reverse voltage of 4 Volts.

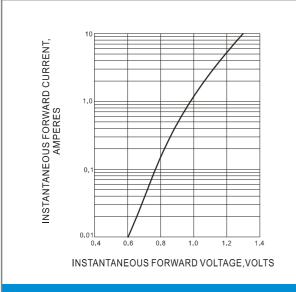
<sup>2.</sup> Thermal resistance from junction to ambient mounted on 5cmX6cm P.C.B. with minimum copper pads.



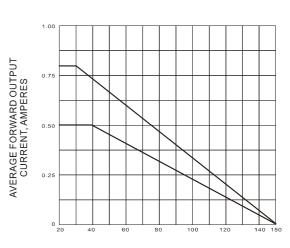
## **RATING AND CHARACTERISTIC CURVES**



## Fig.1 MAXIMUM NON-REPETITIVE SURGE CURRENT



### Fig.3 TYPICAL FORWARD CHARACTERISTICS



AMBIENT TEMPERATURE, °C

#### Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

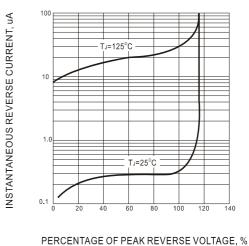
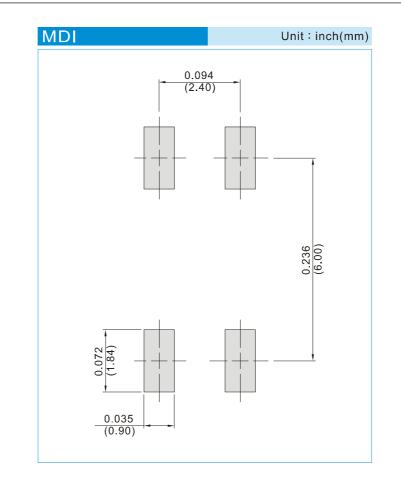


Fig.4 TYPICAL REVERSE CHARACTEISTICS



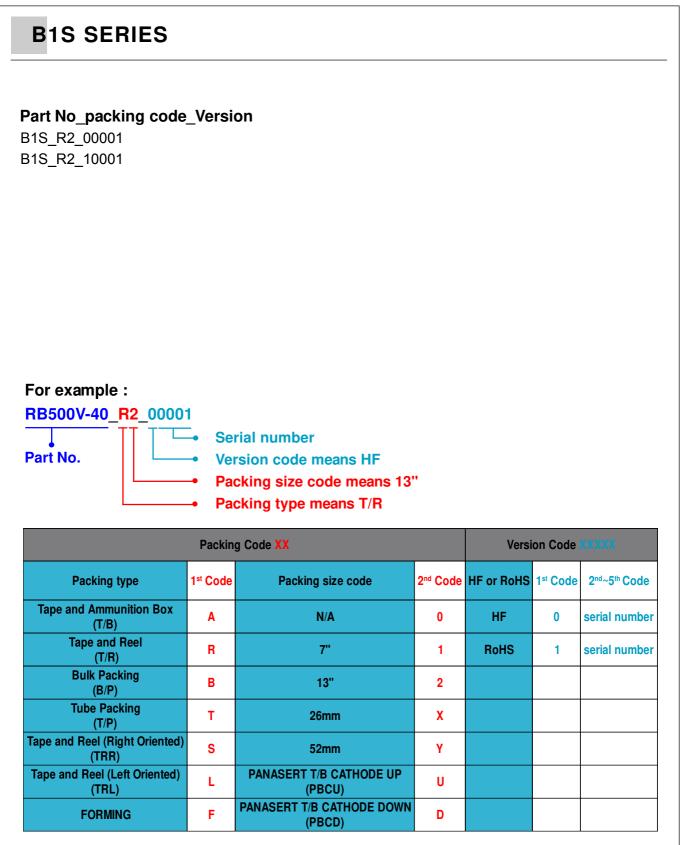


### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel







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