



### **DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER**

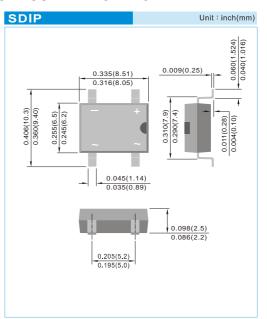
VOLTAGE 50~1000 Volt CURRENT 2 Ampere

#### **FEATURES**

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Ideal for printed circuit board
- Lead free in compliance with EU RoHS 2011/65/EU directive

#### **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: 0.0105 ounce, 0.3 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	D1200S	DI201S	D1202S	D1204S	D1206S	D1208S	DI2010S	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	T <sub>A</sub> =40°C	I <sub>F(AV)</sub>	2.0						А	
Non-repetitive peak forward surge current square waveforr tp=1ms	n T <sub>J</sub> =25°C	I <sub>FSM</sub>				120				Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>				50				А
I <sup>2</sup> t Rating for fusing (t<8.35ms)		l²t				10.0				A <sup>2</sup> S
Maximum Forward Voltage Drop per Bridge Element at 2A		V <sub>F</sub>	1.1					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500					μΑ		
Typical Junction Capacitance	(Note 1)	C <sub>J</sub>	25					pF		
Typical Thermal Resistance Per Leg	(Note 2)	R <sub>eJA</sub> R <sub>eJL</sub>	40 15				°C / W			
Operating Junstion and Storage Temperature Range		$T_J, T_{sTG}$	-55 to + 150					°C		

#### NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4 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





### **RATING AND CHARACTERISTIC CURVES**

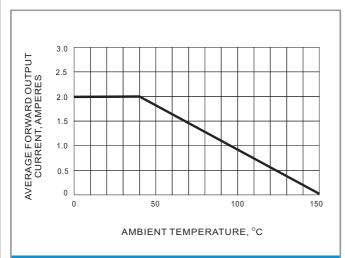


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

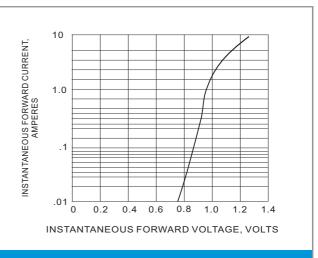


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

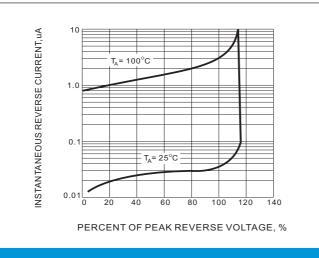


FIG.3 TYPICAL REVERSE CHARACTERISTICS

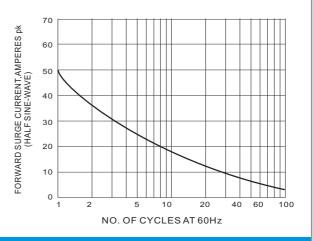
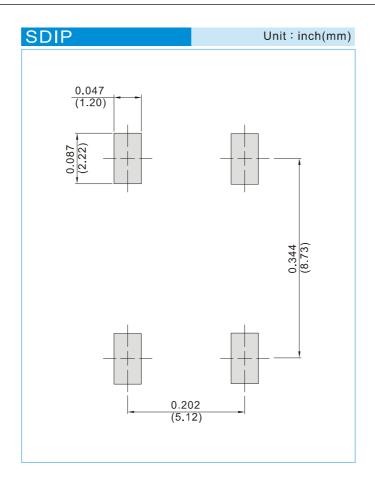


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





### MOUNTING PAD LAYOUT



### ORDER INFORMATION

· Packing information

T/R - 1.5K per 13" paper Reel

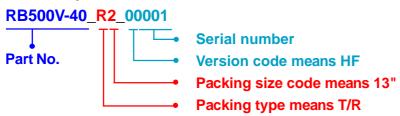




# Part No\_packing code\_Version

DI200S\_R2\_00001 DI200S\_T0\_00001

## For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





## **Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
  of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
   Customers are responsible in comprehending the suitable use in particular applications.
   Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.