



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

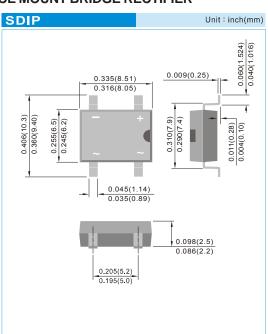
VOLTAGE 50~1000 Volts CURRENT 2.0 Amperes SDIP

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- · Surge overload rating-- 50 amperes peak
- · Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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: 0.0115 ounce, 0.3268 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	DI208S	D12010S	UNITS
Maximum Recurrent Peak Reverse Voltage		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 Current T _A =40°C	I _{F(AV)}	2.0						Α	
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50						Α	
1 ² t Rating for fusing (t<8.35ms)	l²t	10.0					A ² S		
Maximum Forward Voltage Drop per Bridge Element at 2.0A	V _F	1.1				V			
Maximum DC Reverse CurrentT _s =25 °C at Rated DC Blocking VoltageT _s =125 °C	I _R	5.0 500				μА			
Typical Junction capacitance (Note 1)	C _J	25				pF			
Typical thermal resistance per leg ((Note 2)	R _{eja} R _{ejl}	40 15				°C / W			
Operating Junstion 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





RATING AND CHARACTERISTIC CURVES

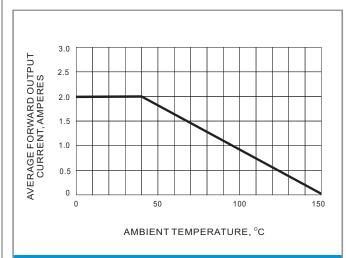


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

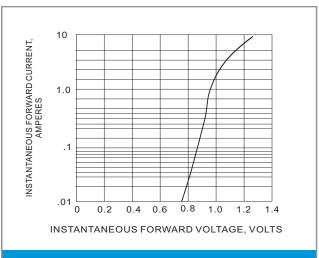


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

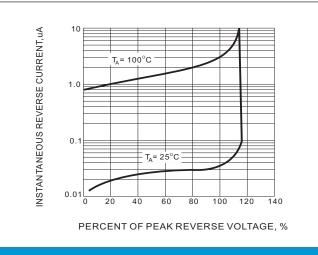


FIG.3 TYPICAL REVERSE CHARACTERISTICS

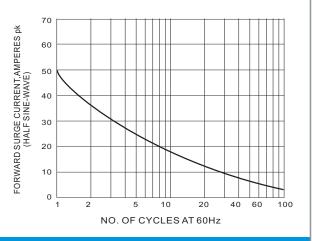
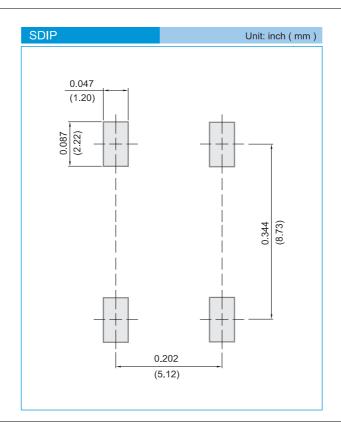


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 1.5K per 13" plastic Reel

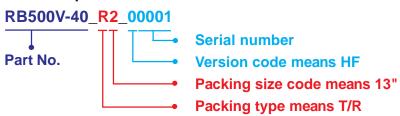




Part No_packing code_Version

DI200S_R2_00001 DI200S_T0_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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