



SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

1 Ampere

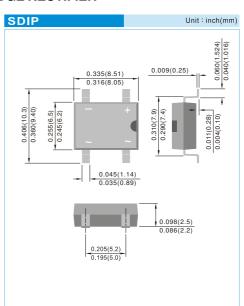
VOLTAGE 50 to 1000 Volt CURR Recongnized File #E111753

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-19500/228
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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
- Weight: 0.01058 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		DI100S	DI101S	DI102S	DI104S	DI106S	DI108S	DI1010S	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Current T _A =40°C	I _{F(AV)}	1					Α		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						А	
I ² t Rating For Fusing (t<8.35ms)	I²t	3.735						A ² S	
Maximum Forward Voltage Drop per Bridge Element at 1A V _F		1.1						٧	
Maximum DC Reverse Current at Rated DC Blocking $T_A = 25^{\circ}C$ Voltage $T_A = 125^{\circ}C$	I _R	5 500				μА			
Typical Junction Capacitance (Note 1)	C _J	25				pF			
Typical Thermal Resistance Per Leg (Note 2)	$R_{_{\theta JL}}$	55 30				°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. Mounted on a FR4 PCB, single-sided copper, with $100 \mathrm{cm}^2$ copper pad area





RATING AND CHARACTERISTIC CURVES

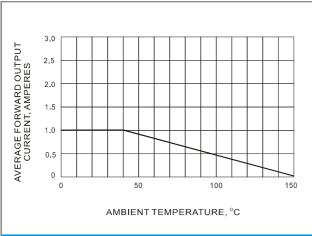


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

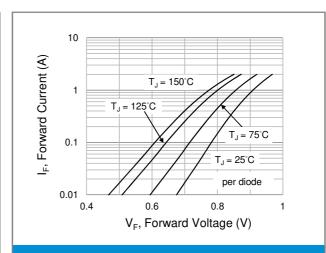


FIG.2 TYPICAL FORWARD CHARACTERISTICS

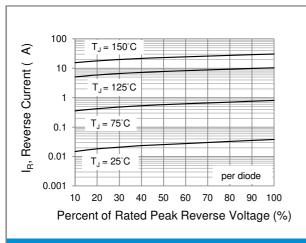


FIG.3 TYPICAL REVERSE CHARACTERISTICS

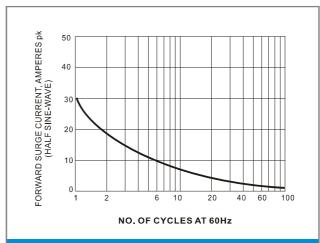
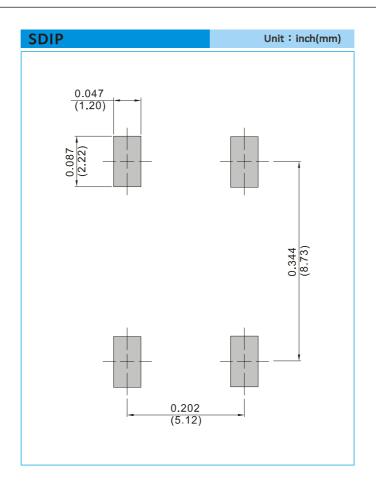


FIG.4 MAX NON-REPETITIVE SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 1.5K per 13" plastic Reel

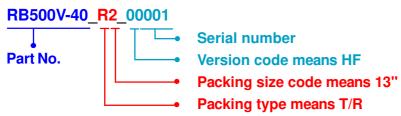




Part No_packing code_Version

DI100S_R2_00001 DI100S_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	Υ						
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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