



DATA SHEET

DI100S~DI1010S

SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

Recognized 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
- In compliance with EU RoHS 2002/95/EC directives

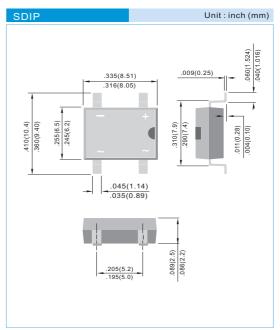
MECHANICALDATA

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: 0.02 ounce, 300mg



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	DI100S	DI101S	DI102S	DI104S	DI106S	DI108S	DI1010S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	٧
Maximum Average Forward Current TA=40°C	lav	1.0							Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I FSM	30							Α
Pt Rating for fusing (t<8.35ms)	l²t	3.735							A²t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	VF	1.1							٧
Maximum DC Reverse Current TA=25 °C at Rated DC Blocking VoltageTA=125 °C	lR	5.0 500							uA
Typical Junction capacitance (Note 1)	Сл	25							pF
Typical thermal resistance per leg ((Note 2)	R0JA R0JL	40 15							°C / W
Operating Junstion and Storage Temperature Range	Тл,Тѕтс	-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

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RATING AND CHARACTERISTIC CURVES

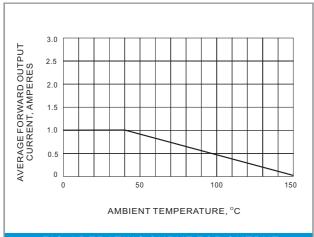


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

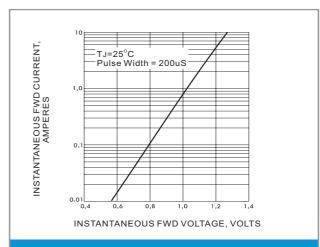


FIG.2 TYPICAL FORWARD CHARACTERISTICS

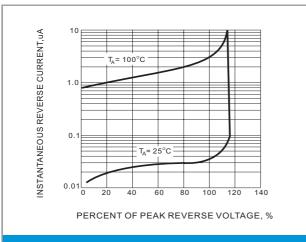


FIG.3 TYPICAL REVERSE CHARACTERISTICS

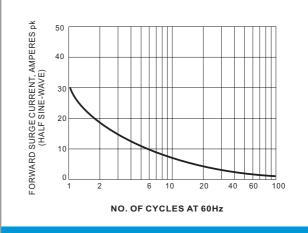


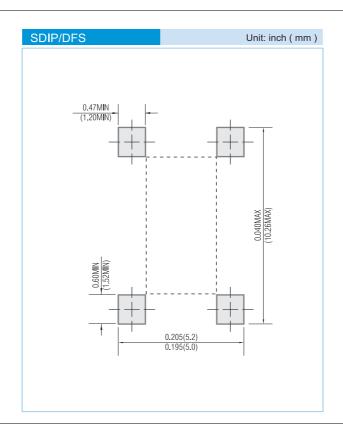
FIG.4 MAX NON-REPETITIVE SURGE CURRENT

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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 1.5K per 13" plastic Reel

LEGAL STATEMENT

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