



DI200~DI2010

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

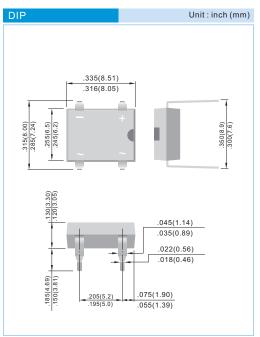
VOLTAGE 50~1000 Volts CURRENT 2.0 Amperes

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

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	D1200	DI201	D1202	D1204	D1206	DI208	DI2010	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{_{RRM}}$	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						А	
I 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 _{,j} =25 °C at Rated DC Blocking VoltageT _{,j} =125 °C	I _R	5.0 500						μΑ	
Typical Junction capacitance (Note 1)	CJ	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

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RATING AND CHARACTERISTIC CURVES

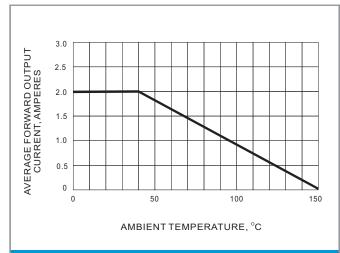


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

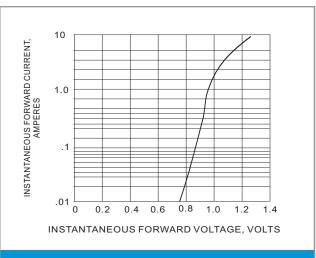


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

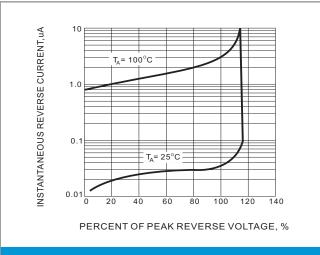


FIG.3 TYPICAL REVERSE CHARACTERISTICS

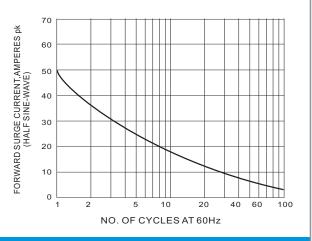


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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