

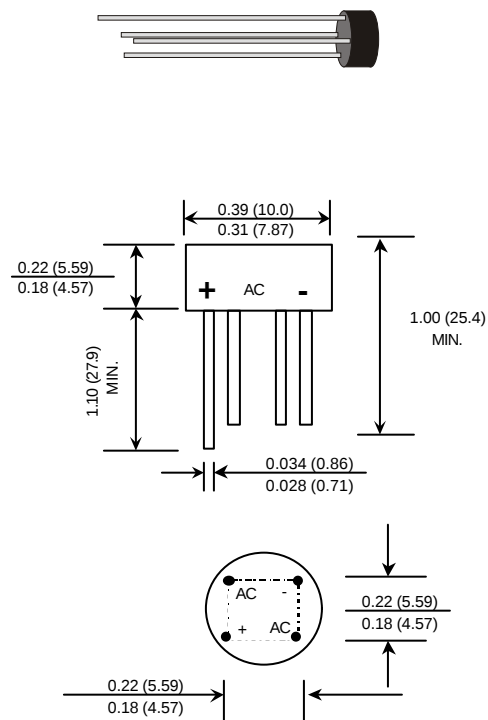
VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.5A

Features

- Glass passivated chip
- High case dielectric strength
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Ideal for printed circuit board

Mechanical Data

- Case : Reliable low cost construction utilizing molded plastic technique
- Epoxy : UL94V-O rate flame retardant
- Terminals : Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Polarity symbols marked on case
- Mounting position : Any
- Weight : 1.29 grams



Dimension in inches and (millimeter)

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	W005	W01	W02	W04	W06	W08	W10	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current 0.375" (9.5 mm) lead length	I _{F(AV)}	1.5							Amps.
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	50							Amps.
Rating for fusing (t < 8.3 ms.)	I ² t	10							A ² S
Maximum Forward Voltage per Diode at I _F = 1.0 Amp.	V _F	1.0							Volts
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C	I _R	10							μA
	I _{R(H)}	1.0							mA
Typical Junction Capacitance per Diode (Note 1)	C _J	14							pf
Typical Thermal Resistance (Note 2)	R _{θJA}	36							°C/W
Operating Junction Temperature Range	T _J	- 50 to + 150							°C
Storage Temperature Range	T _{STG}	- 50 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 at 0.375" (9.5 mm) lead length P.C. Board mounting.

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

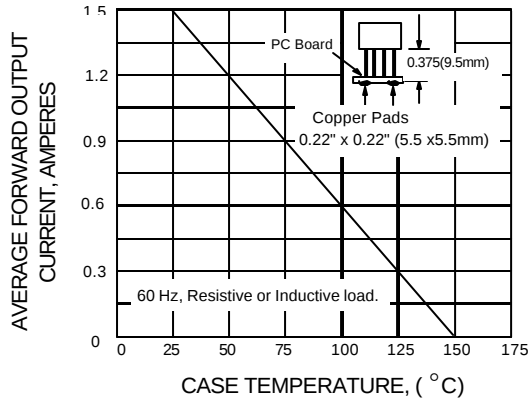


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

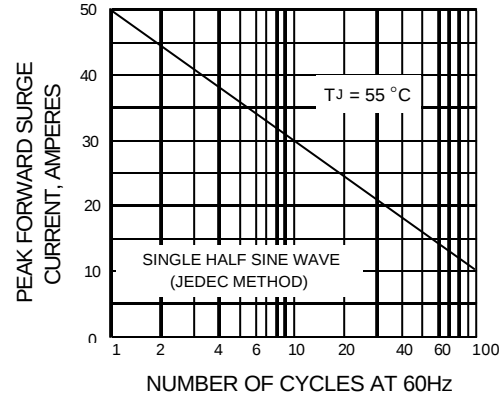


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

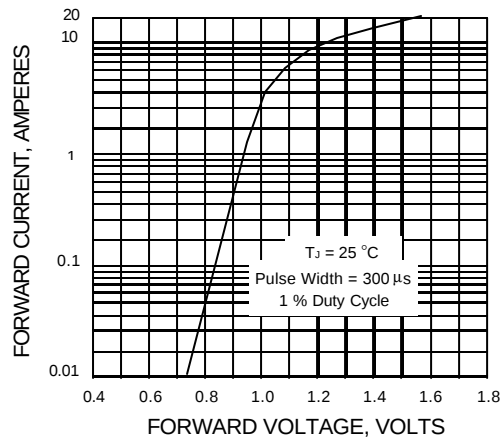


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

