

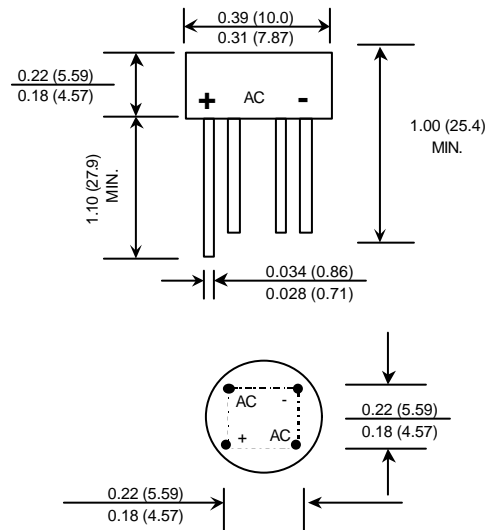
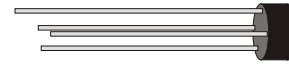
**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 1.5A**

### 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 $T_A = 25^\circ\text{C}$ unless otherwise specified

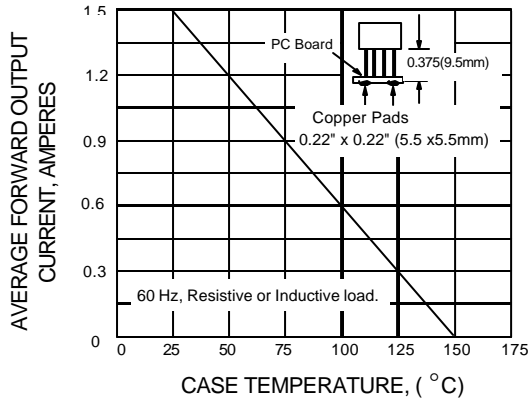
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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. )	$I^2t$	10							$A^2S$
Maximum Forward Voltage per Diode at $I_F = 1.0$ Amp.	$V_F$	1.0							Volts
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	$I_R$	10							$\mu\text{A}$
	$I_{R(H)}$	1.0							mA
Typical Junction Capacitance per Diode (Note 1)	$C_J$	14							pf
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	36							$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_J$	- 50 to + 150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 50 to + 150							$^\circ\text{C}$

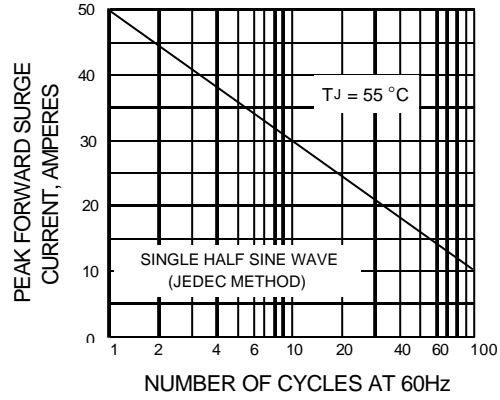
### Notes :

- 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.

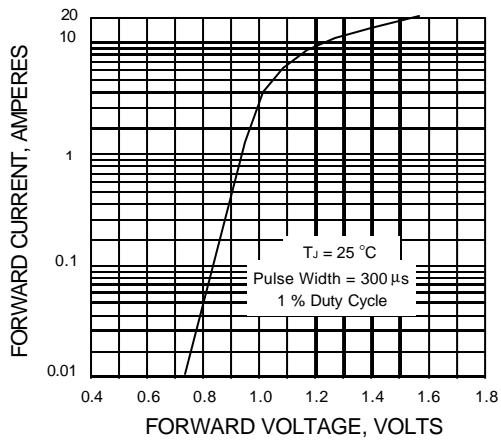
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

