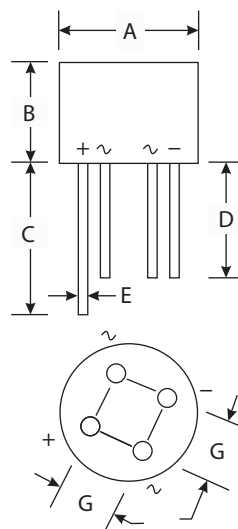


W005M THRU W10M

CURRENT 1.5 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Ideal for Printed Circuit Boards
- Case to Terminal Isolation Voltage 1500V
- Plastic Material - UL Flammability Classification Rating 94V-0



WOB		
Dim	Min	Max
A	8.84	9.86
B	4.00	4.60
C	27.90	—
D	25.40	—
E	0.71	0.81
G	4.60	5.60
All Dimensions in mm		

Mechanical Data

- Case : WOB, Molded Plastic
- Terminals : Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity : As Marked on Body
- Weight : 1.3 grams (approx.)
- Mounting Position : Any
- Marking : Type Number

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 by 20%)

		Symbols	W005M	W01M	W02M	W04M	W06M	W08M	W10M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RMM} V _{RWM} V _R	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ TA=25°C		I _o	1.5							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	50							Amps
Forward Voltage (per element) @ I _F =1.5 A		V _{FM}	1.0							Volts
Peak Reverse Current at Rated DC Blocking Voltage	@ TA=25°C	I _{RM}	5.0							μ A
	@ TA=125°C		500							
Typical Junction Capacitance (Note 1)		C _j	12							pF
Typical Thermal Resistance, Junction to Case (Note 2)		Rθ JA	84							°C/W
Operating and Storage Temperature Range		T _j T _{STG}	-65 to +150							°C

Notes:

(1) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

(2) Thermal Resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.

RATING AND CHARACTERISTIC CURVES W005M THRU W10M

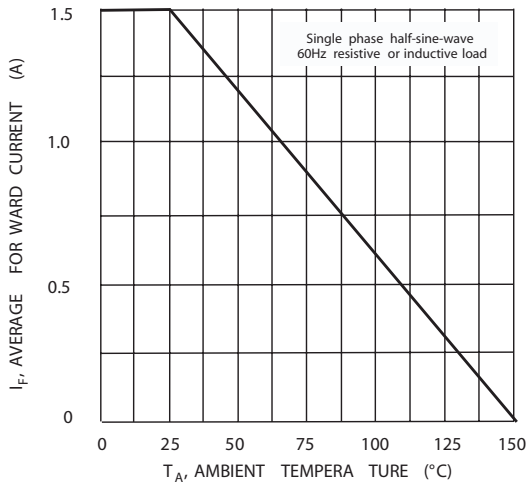


Fig. 1 Forward Current Derating Curve

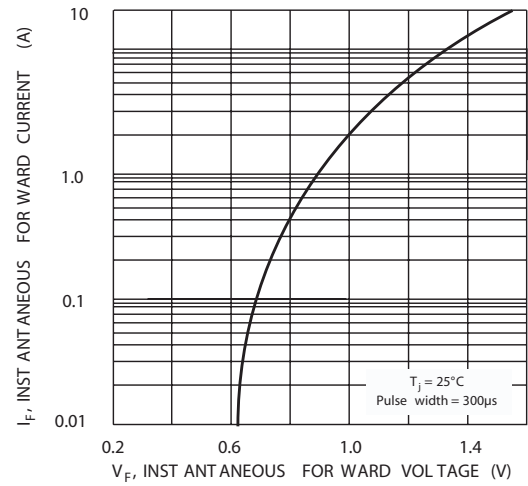


Fig. 2 Typical Forward Characteristics

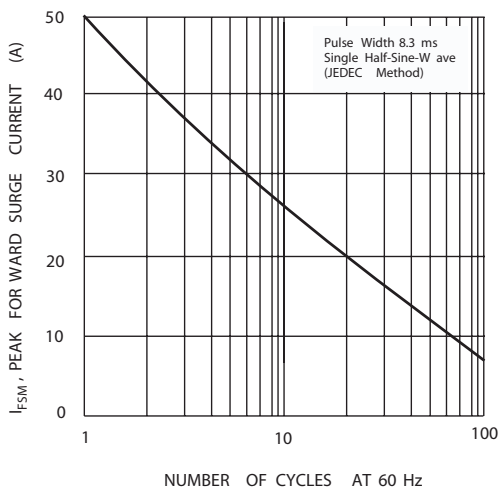


Fig. 3 Max Non-Repetitive Surge Current

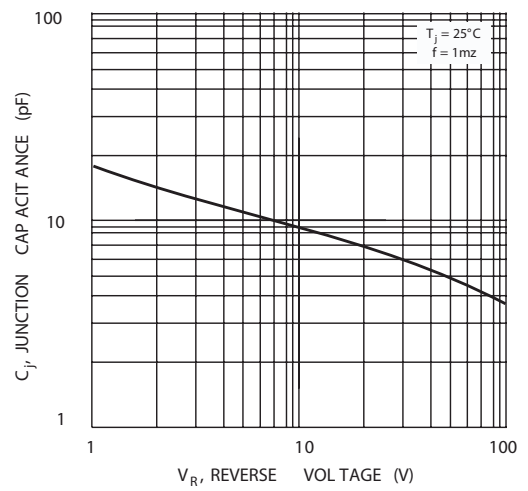


Fig. 4 Typical Junction Capacitance

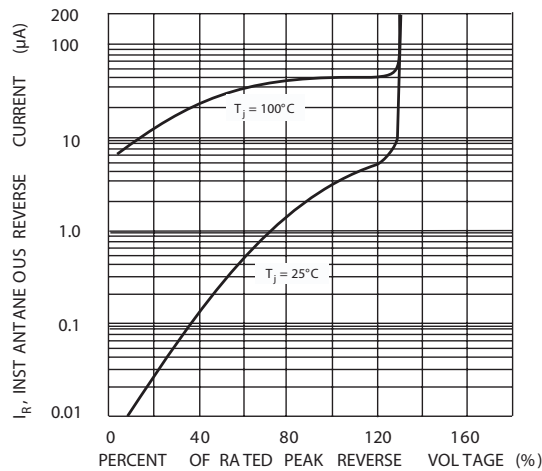


Fig. 5 Typical Reverse Characteristics