

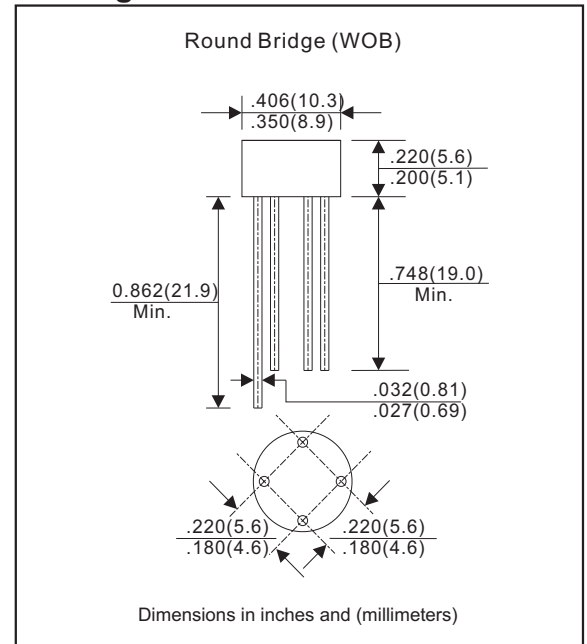
### Features

- Surge overload rating 60 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in expensive product
- Lead-free parts for green partner, meet RoHS requirements
- Suffix "-H" indicates Halogen-free parts, ex. 2W005G-H.

### Mechanical data

- Case: Potted plastic round body RB-15
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: As marked
- Mounting Position: Any

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig. 1	$I_o$			2.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	$I_{FSM}$			60	A
Reverse current	$V_R = V_{RRM} T_J = 25^\circ\text{C}$	$I_R$			5.0	uA
	$V_R = V_{RRM} T_J = 100^\circ\text{C}$				1000	
$I^2t$ Rating for fusing	$t < 8.3$ ms	$I^2t$			15	$\text{A}^2\text{s}$
Typical Junction capacitance	Note 1	$C_J$		30		pF
Storage temperature		$T_{STG}$	-65		+175	$^\circ\text{C}$

Note:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V

SYMBOLS	$V_{RRM}^{*1}$ (V)	$V_{RMS}^{*2}$ (V)	$V_R^{*3}$ (V)	$V_F^{*4}$ (V)	Operating temperature $T_J, (^\circ\text{C})$
2W005G	50	35	50	1.0	-55 to +150
2W01G	100	70	100		
2W02G	200	140	200		
2W04G	400	280	400		
2W06G	600	420	600		
2W08G	800	560	800		
2W10G	1000	700	1000		

\*1 Repetitive peak reverse voltage

\*2 RMS voltage

\*3 Continuous reverse voltage

\*4 Maximum forward voltage @  $I_F=2.0\text{A}$

## Rating and characteristic curves (2W005G THRU 2W10G)

Fig.1 - Forward Current Derating Curve

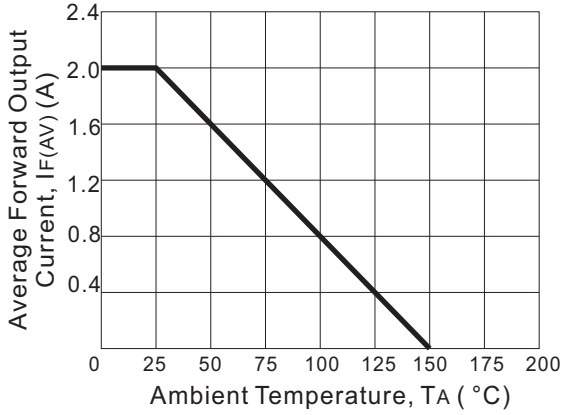


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

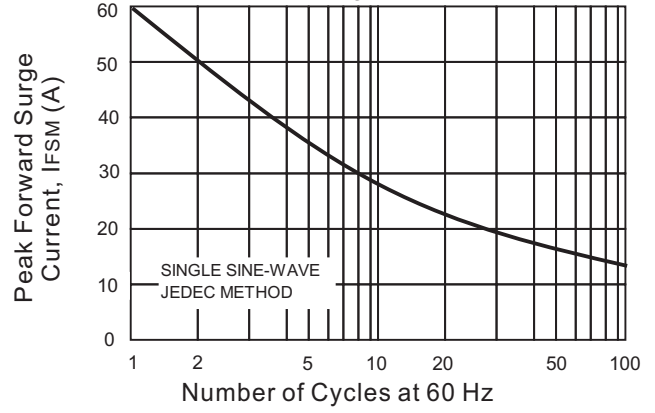


Fig. 3 - Typical Instantaneous Forward Characteristics (Per Leg)

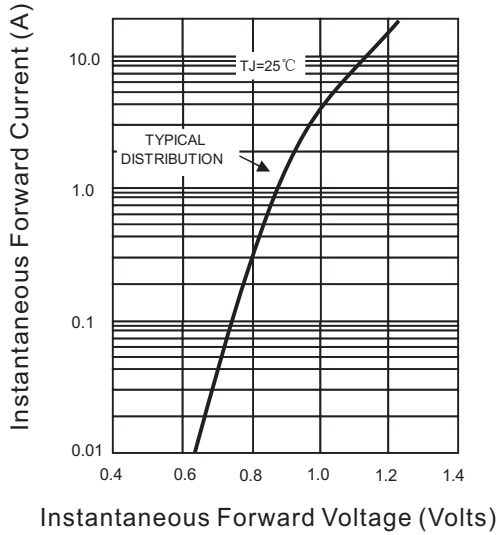


Fig. 4 - Typical Reverse Characteristics Per Leg

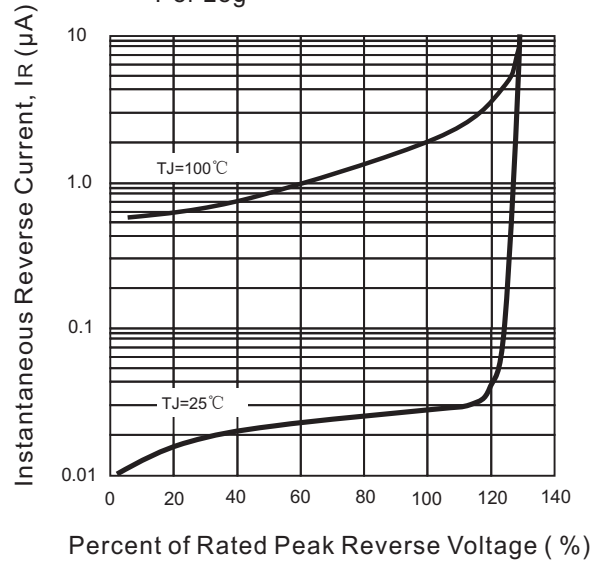
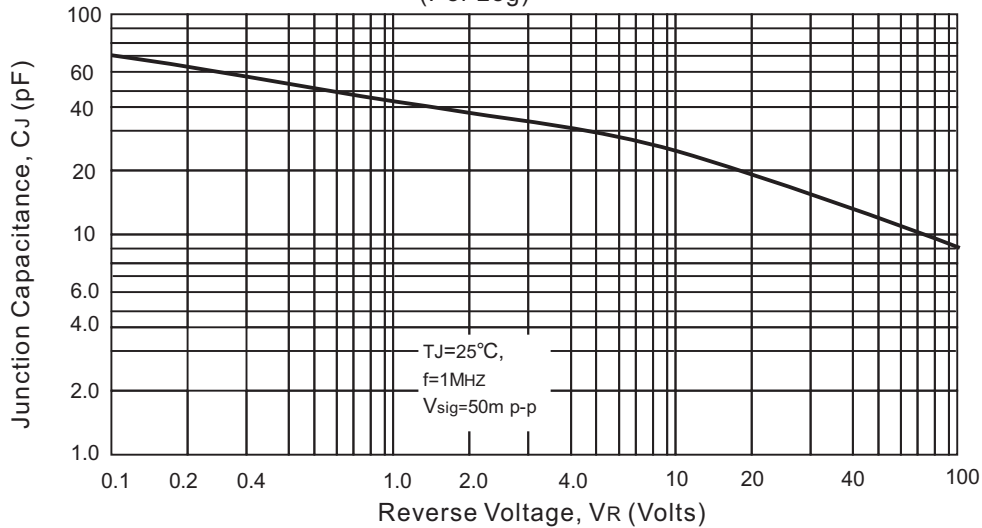
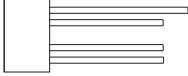
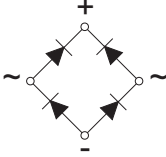


Fig. 5 - Typical Junction Capacitance (Per Leg)



### Pinning information

Simplified outline	Symbol
	

### Marking

Type number	Marking code
2W005G	2W005G
2W01G	2W01G
2W02G	2W02G
2W04G	2W04G
2W06G	2W06G
2W08G	2W08G
2W10G	2W10G