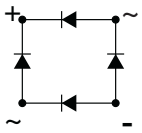
1.5 Amp. Glass Passivated Bridge Rectifier

ROUND



Voltage	Current
50 V to 1000 V	1.5 A

FEATURES

- High case dielectric strength
- High forward surge current capability
- Ideal for printed circuit boards
- Solder dip 260ºC, 40s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Typical I_R less than 0.1µA

Pb e3 RoHS COMPLIANT

MECHANICAL DATA

- **Case:** ROUND

Epoxy meets UL 94V-0 flammability rating.

- **Polarity:** As marked on body.
- **Terminals:** Silver plated leads, solderable per J-STD-002 and JESD22-B102.
  Consumer grade.

TYPICAL APPLICATIONS

Used in ac-to-dc bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications..

Maximun Ratings and Electrical Characteristics at 25°C

		W005F	W01F	W02F	W04F	W06F	W08F	W10F
Marking code		W005F	W01F	W02F	W04F	W06F	W08F	W10F
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS voltage (V)	35	70	140	280	420	560	700
V_{DC}	Maximum DC blocking voltage (V)	50	100	200	400	600	800	1000
$I_{F\ (AV)}$	Forward current at Tamb = 25°C R Load	1.5 A						
	C Load	1.2 A						
I_{FRM}	Recurrent peak forward current	15 A						
I_{FSM}	10 ms. peak forward surge current (Jedec Method)	50 A						
I^2t	I^2t value for fusing (t = 10 ms)	12 A^2sec						
T_j	Operating temperature range	– 55 to + 125 °C						
T_{stg}	Storage temperature range	– 55 to + 150 °C						

Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop per element at I_F = 1.0 A	1.0 V
I_R	Max. reverse current per element at V_{RRM}	10 µA

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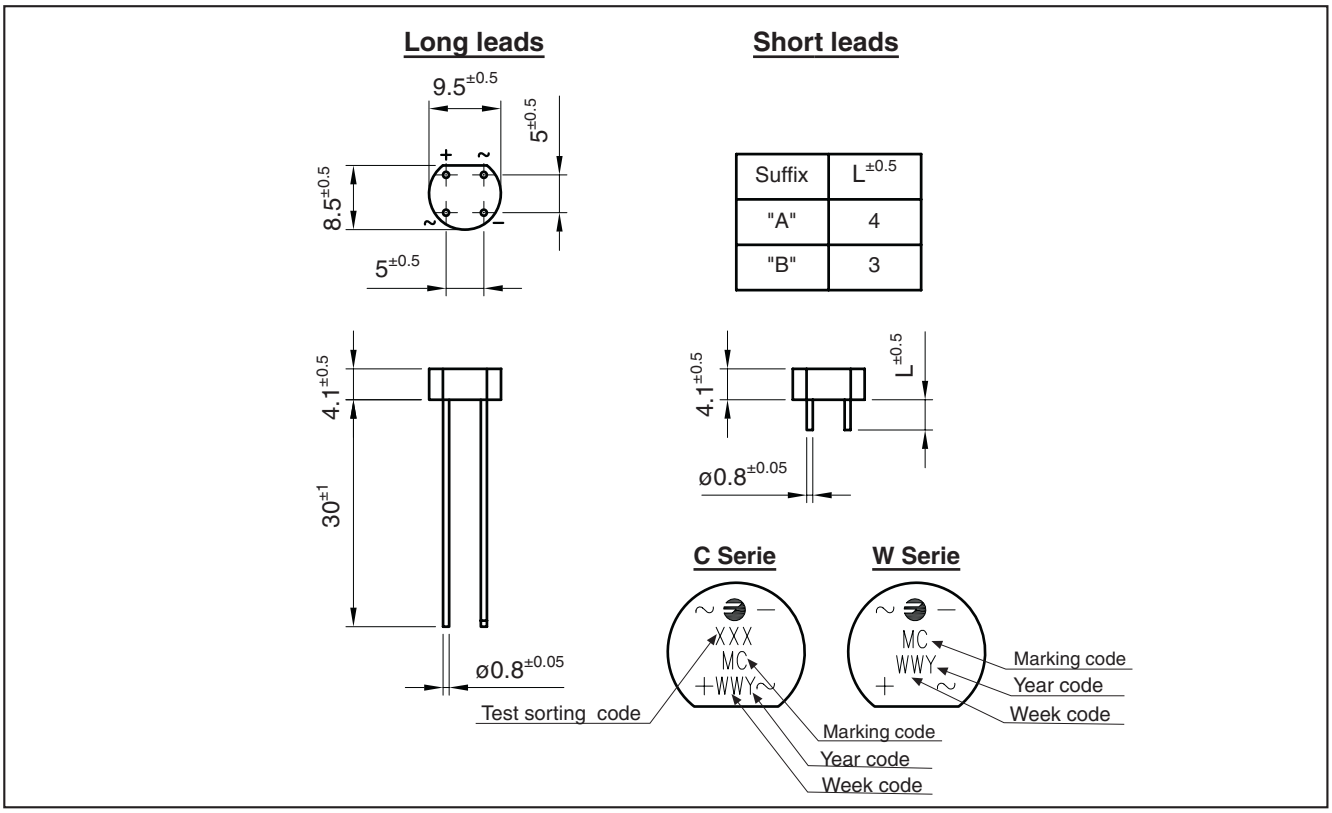
Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
W06F	BU	BULK	1,000	1.12
W06FA	BU	BULK	3,000	1.09
W06FB	BU	BULK	3,000	1.09

Package Outline Dimensions: (mm) ROUND



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Ratings and Characteristics (Ta 25 ºC unless otherwise noted)

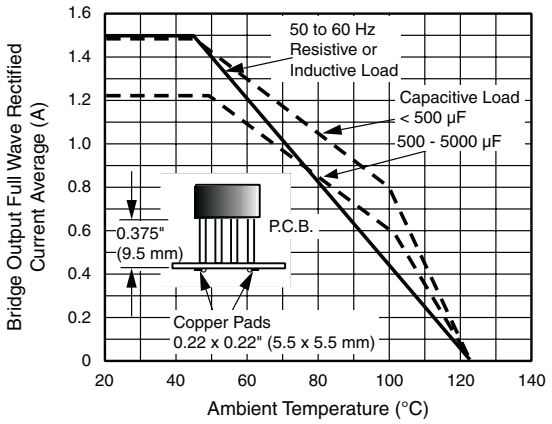

Figure 1. Derating Curves Output Rectified Current for W005F...W04F

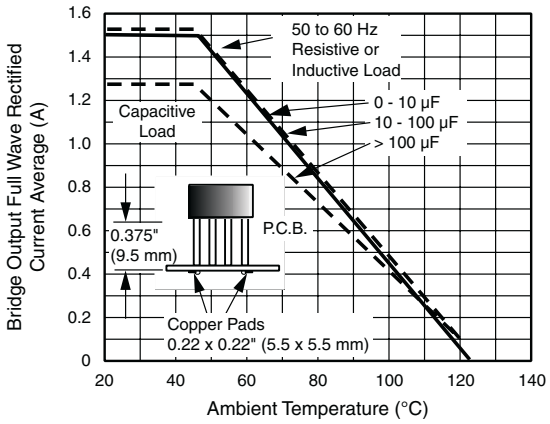

Figure 2. Derating Curves Output Rectified Current for W06F...W10F

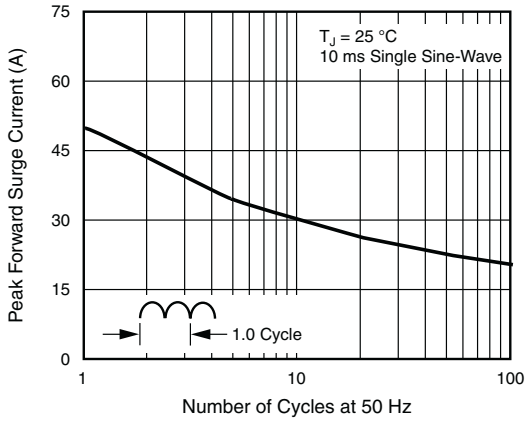

Figure 3. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

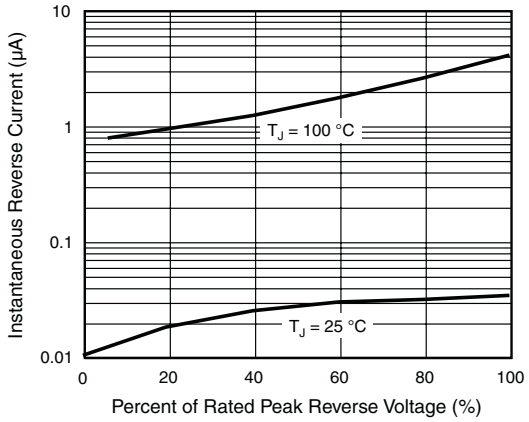

Figure 4. Typical Reverse Characteristics Per Diode

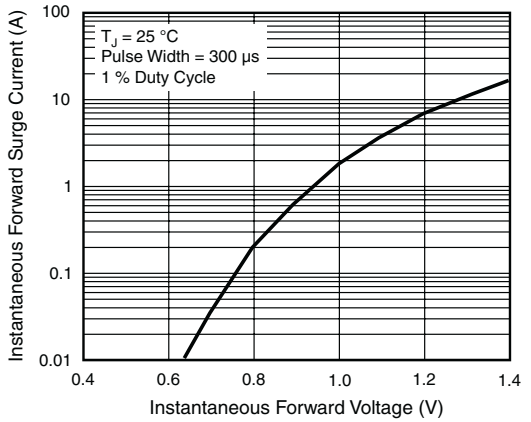

Figure 5. Typical Forward Characteristics Per Diode

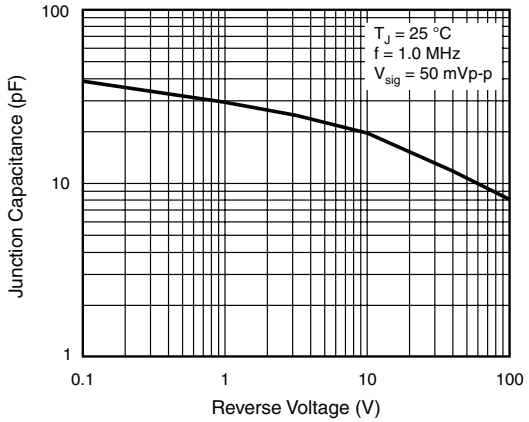

Figure 6. Typical Junction Capacitance Per Diode

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