

# W005 THRU W10

## SINGLE-PHASE BRIDGE RECTIFIER

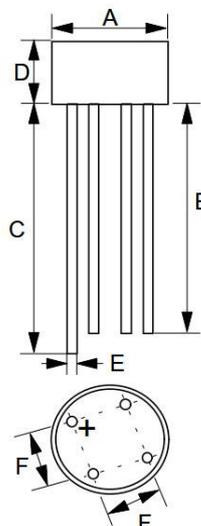
REVERSE VOLTAGE 50 to 1000 Volts    FORWARD CURRENT 1.5 Amperes

### FEATURES

- ◆ Rating to 1000VPRV.
- ◆ Ideal for printed circuit board.
- ◆ Low forward voltage drop, high current capability.
- ◆ Reliable low cost construction utilizing molded epoxy technique results in inexpensive product.
- ◆ The plastic material has UL flammability classification 94V-0.

### Mechanical Data

- ◆ Case: Molded plastic.
- ◆ Polarity: As marked on Body.
- ◆ Weight: 0.05 ounces, 1.42grams.
- ◆ Mounting position: Any.



WOB		
DIM.	MIN.	MAX.
A	8.90	9.30
B	18.0	-
C	21.0	-
D	5.10	5.60
E	0.68	0.80
F	4.60	5.60
All Dimensions in millimeter		

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

PARAMETER	SYMBOL	W005	W01	W02	W04	W06	W08	W10	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=25°C	$I_{(AV)}$	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							A
Maximum forward Voltage at 1.0A DC	VF	1.0							V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @ T <sub>J</sub> =125°C	$I_R$	50							μA
		500							
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	10.4							A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	20							pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	36							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

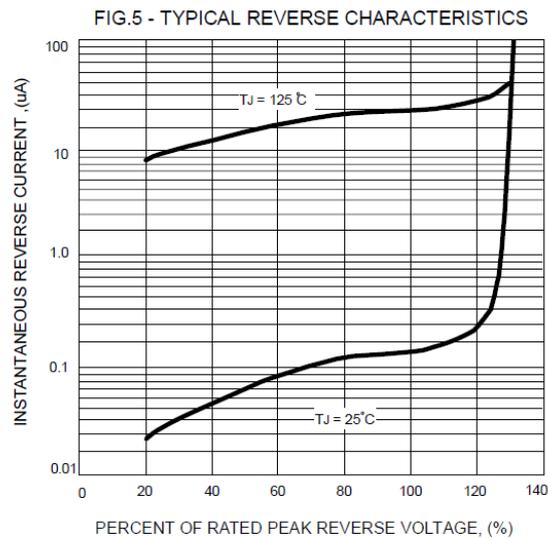
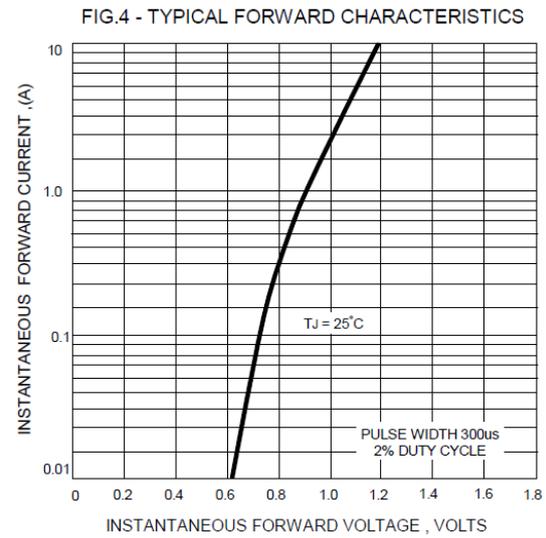
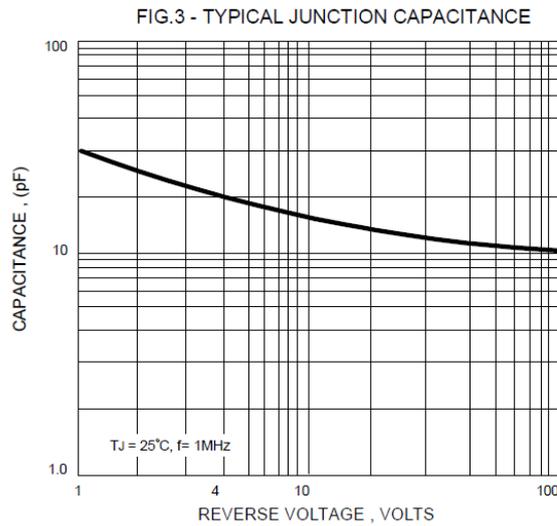
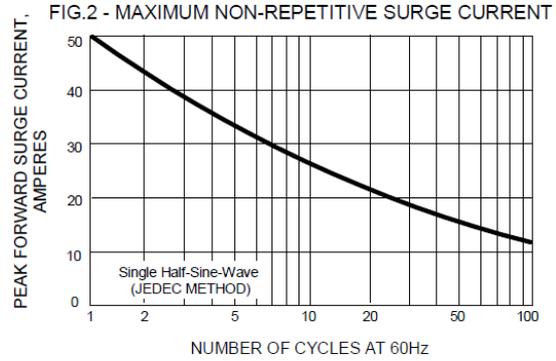
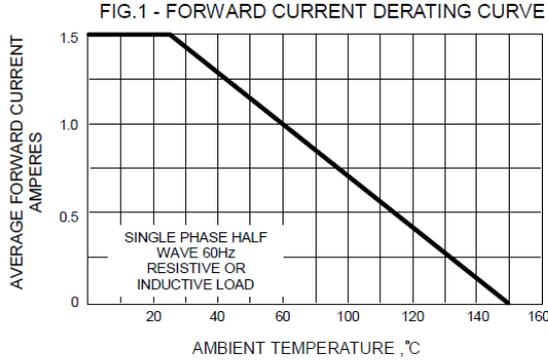
2. Thermal Resistance Junction to Ambient.

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### RATING AND CHARACTERISTIC CURVES W005 THRU W10



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.