

W005 THRU W10

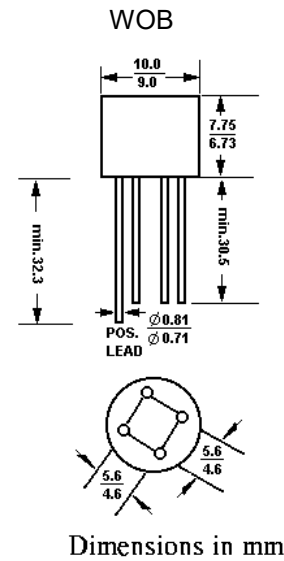
1.5 A Single-phase Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 1.5 A

Features

- Ideal for printed circuit boards
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Mounting Position: Any



Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single-phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	W005	W01	W02	W04	W06	W08	W10	Units
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	800	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 25^\circ\text{C}$	$I_{(AV)}$	1.5							A
Peak Forward Surge Current ,8.3 ms Single Half sine-wave Superimposed On Rated Load	I_{FSM}	50							A
Rating for Fusing ($t < 8.35$ ms)	I^2t	5							A^2t
Maximum Forward Voltage at 1 A	V_F	1							V
Maximum Reverse Current At Rated DC blocking Voltage Per Element	I_R	10							μA
		1							mA
Operating temperature Range	T_j	- 50 to + 125							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 50 to + 150							$^\circ\text{C}$

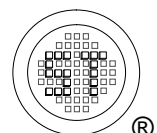


FIG. 1-MAXIMUM FORWARD SURGE CURRENT

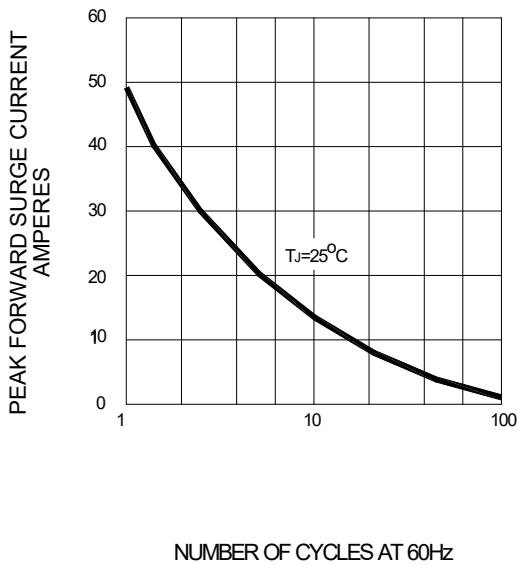


FIG. 2-DE-RATING CURVE
OUTPUT RECTIFIED CURRENT

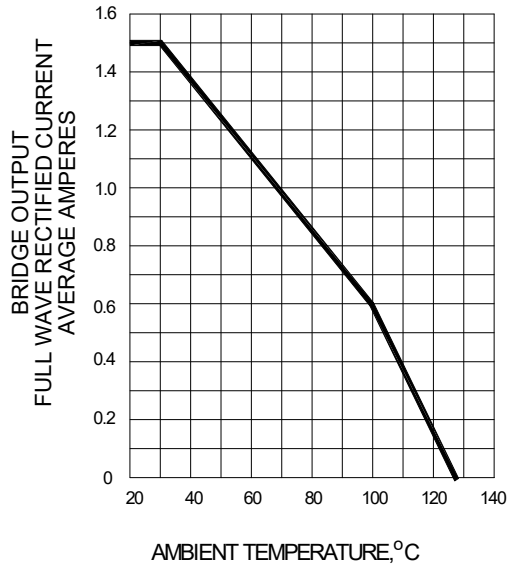


FIG. 3-TYPICAL FORWARD
CHARACTERISTICS

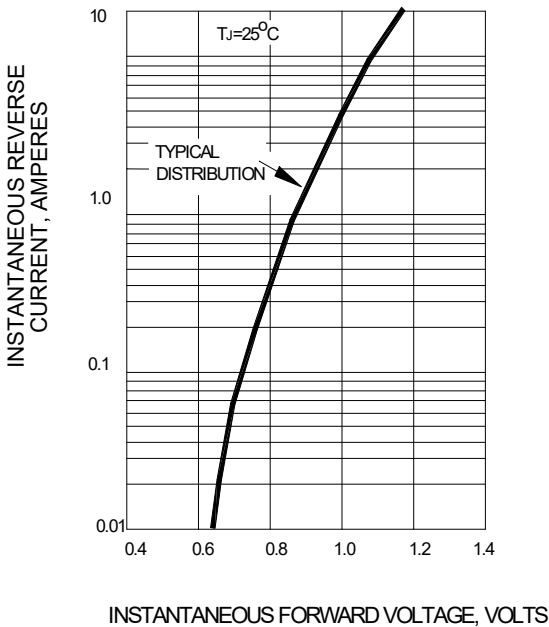


FIG. 4-TYPICAL REVERSE
CHARACTERISTICS

