W005 THRU W10

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.5A

GULF SEMI

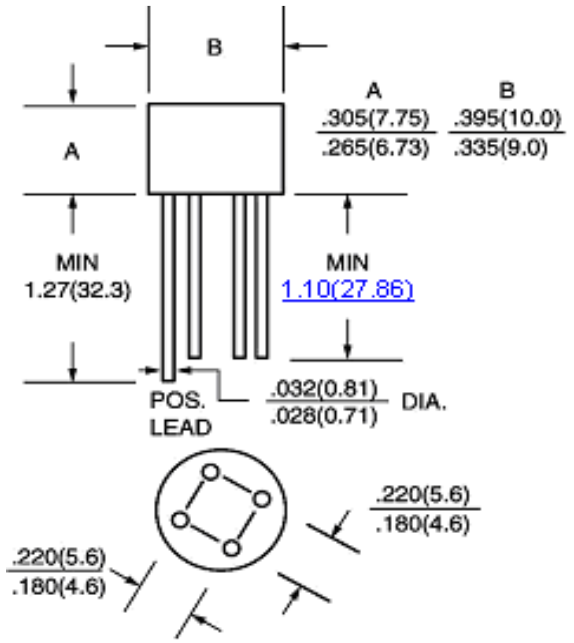
FEATURE

Ideal for printed circuit board
Surge overload rating:50 A peak
High case dielectric strength

MECHANICAL DATA

Terminal: Plated leads solderable per MIL-STD 202E, method 208C
Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

WOB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	W 005	W 01	W 02	W 04	W 06	W 08	W 10	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =50°C	If(av)	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0							A
Maximum Instantaneous Forward Voltage at forward current 1.5A DC	Vf	1.0							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	10.0 1.0							µA mA
Operating Temperature Range	Tj	-55 to +125							°C
Storage and Operation Junction Temperature	Tstg	-55 to +150							°C

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FIG. 1 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

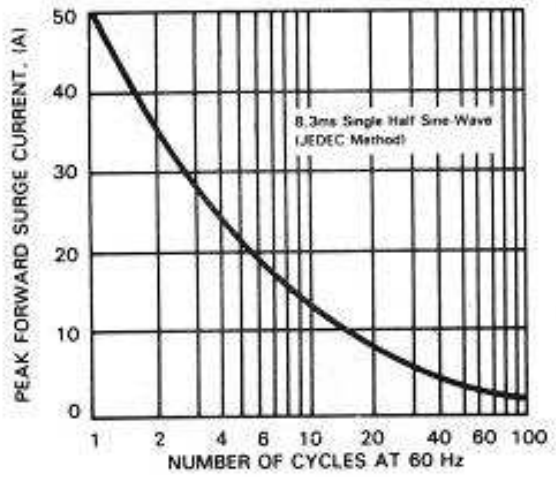

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

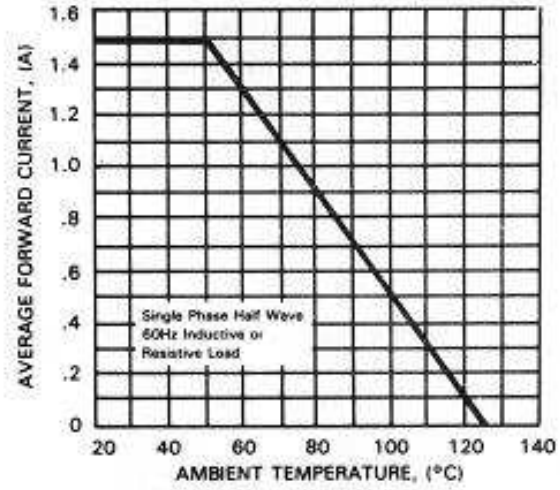

FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

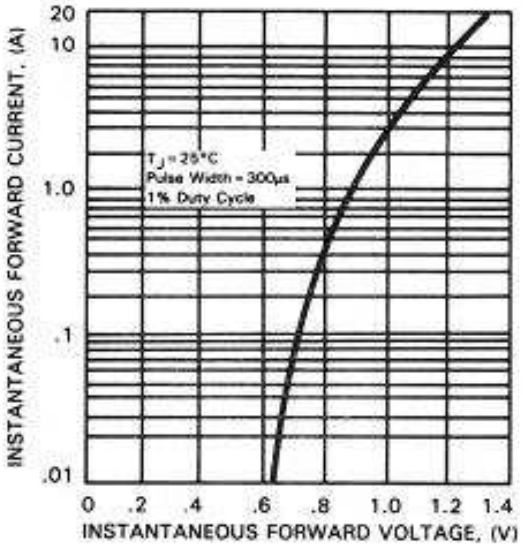

FIG. 4 – TYPICAL REVERSE CHARACTERISTICS