2W005 THRU 2W10

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V **CURRENT: 2.0A**

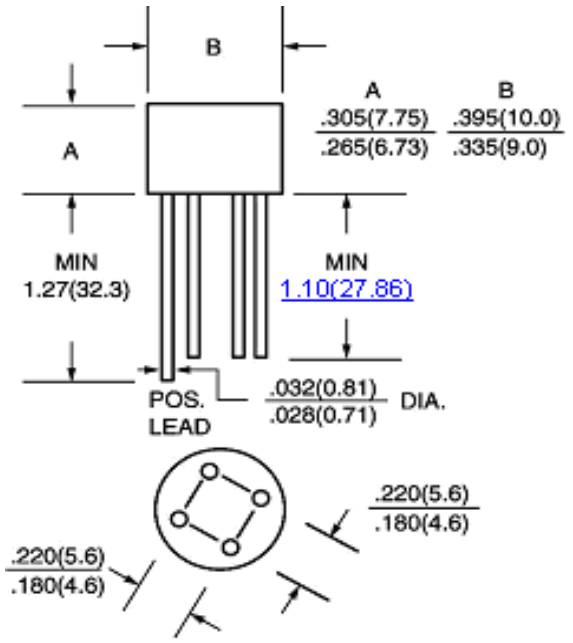
FEATURE

Ideal for printed circuit board
Surge overload rating: 60A peak
High case dielectric strength

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
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)

	SYMBOL	2W005	2W01	2W02	2W04	2W06	2W08	2W10	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 =25°C	If(av)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	60.0							A
Maximum Instantaneous Forward Voltage at forward current 2.0A 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

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

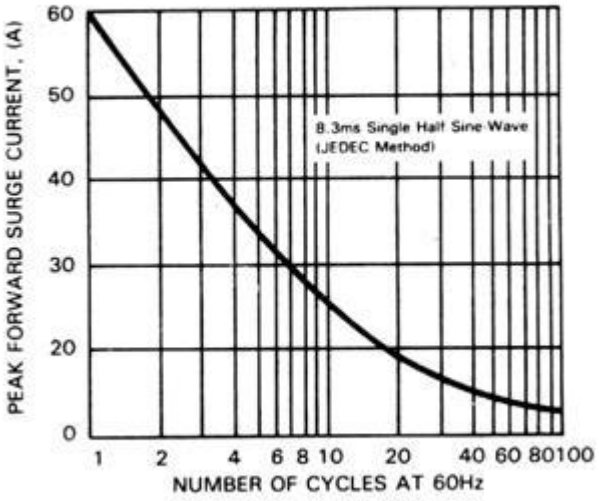


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

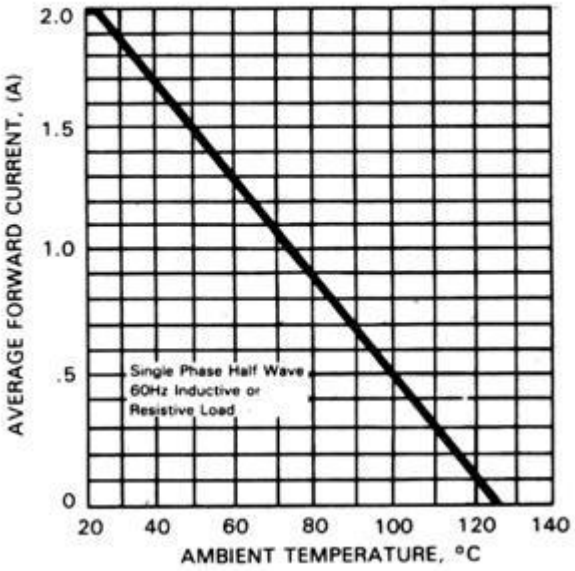


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

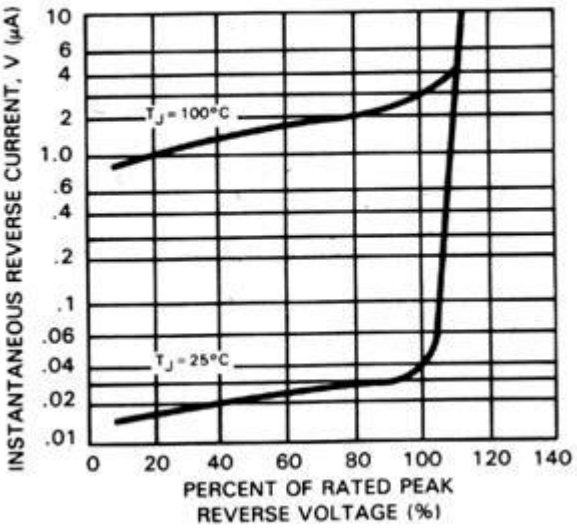


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS