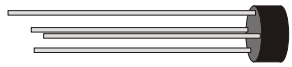
W005-W10

SILICON BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.5A



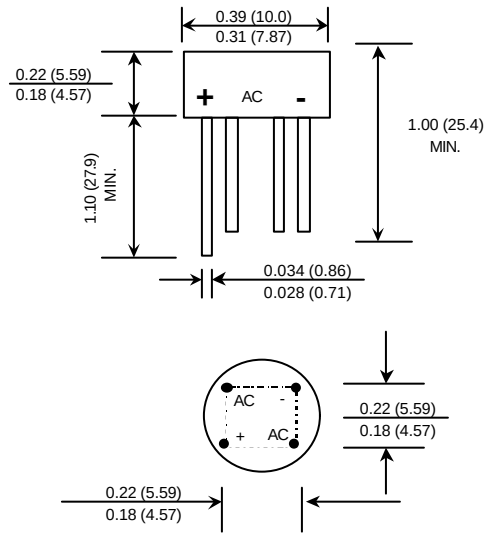
Features

- Glass passivated chip
- High case dielectric strength
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Ideal for printed circuit board

Mechanical Data

- Case : Reliable low cost construction utilizing molded plastic technique
- Epoxy : UL94V-O rate flame retardant
- Terminals : Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Polarity symbols marked on case
- Mounting position : Any
- Weight : 1.29 grams

RoHS COMPLIANT



Dimension in inches and (millimeter)

Maximum Ratings and Electrical Characteristics

T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	W005	W01	W02	W04	W06	W08	W10	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current 0.375" (9.5 mm) lead length	$I_{F(AV)}$	1.5							Amps.
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps.
Rating for fusing (t < 8.3 ms.)	I^2t	10							A^2S
Maximum Forward Voltage per Diode at I_F = 1.0 Amp.	V_F	1.0							Volts
Maximum DC Reverse Current Ta = 25 °C	I_R	10							μA
at Rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	1.0							mA
Typical Junction Capacitance per Diode (Note 1)	C_J	14							pf
Typical Thermal Resistance (Note 2)	$R\theta JA$	36							°C/W
Operating Junction Temperature Range	T_J	- 50 to + 150							°C
Storage Temperature Range	T_{STG}	- 50 to + 150							°C

Notes :

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

2) Thermal resistance from Junction to Ambient at 0.375" (9.5 mm) lead length P.C. Board mounting.

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

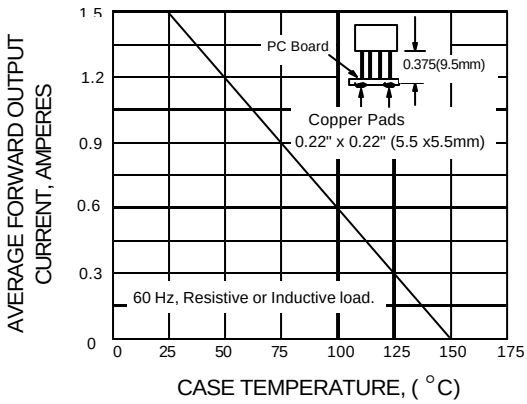


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

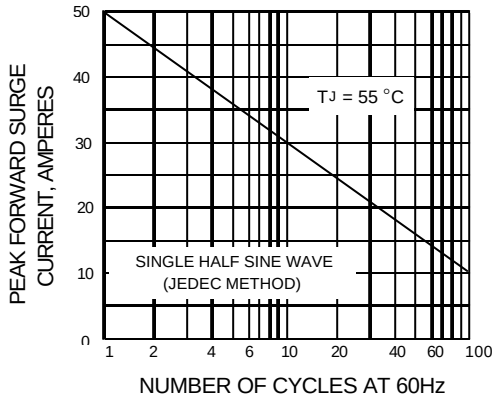


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

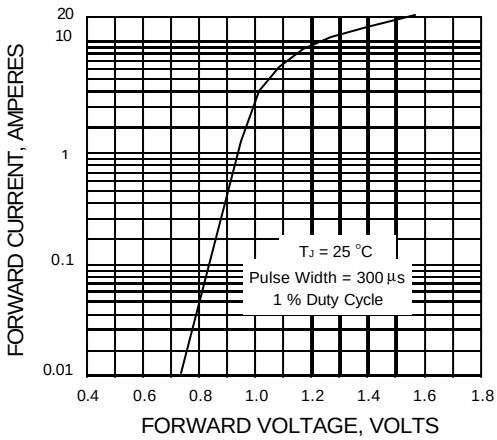


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

