

SINGLE-PHASE BRIDGE RECTIFIER
VOLTAGE RANGE 200 to 1000 Volts
CURRENT 1.0 Ampere

FEATURES

- * Glass Passivated chip junction
- * High forward surge current capability
- * Ideal for printed circuit board
- * High temperature soldering guaranteed:
260°C/10 second at 5 lbs. (2.3kg) tension

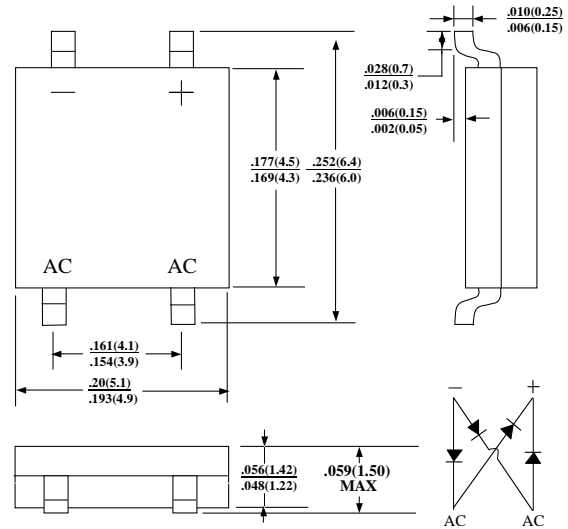
MECHANICAL DATA

- * Case: Transfer molded plastic
- * Epoxy: UL94V-O rate flame retardant
- * Terminals : Lead Solderable Per MIL-STD-202 method 208
- * Polarity : As Marking on Body
- * Mounting Position: Any
- * Weight : 0.04 ounce, 1.0 gram



* In compliance with EU RoHs 2002/95/EC directives

ABS



Dimensions in inches and (millimeters)

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 %

Characteristic	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	700	V
Average Rectifier Forward Current (Note 1) @ $T_A=50^\circ C$	$I_{O(AV)}$	1.0					A
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Forward Voltage (per element) ($I_F = 1.0$ Amp)	V_{FM}	0.95					V
Peak Reverse Current (Rated DC Voltage, $T_C = 25^\circ C$) (Rated DC Voltage, $T_C = 125^\circ C$)	I_R	0.5 20.0					mA
Rating for Fusing($t < 8.3$ ms)	I^2t	10					A ² s
Typical Junction Capacitance per element (Note2)	C_J	25					pF
Typical Thermal Resistance (note 3)	$R_{\theta JL}$ $R_{\theta JA}$	28.0 88.0					°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	-65 to +150					°C

Note: 1 Lead maintained at ambient temperature at a distance of 9.5 mm from the case.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 3. Mounted on P.C. Board with 5.0mm² (.013mm thick) copper pad areas.

ABS2 thru ABS10

FIG-1 FORWARD CURRENT DERATING CURVE

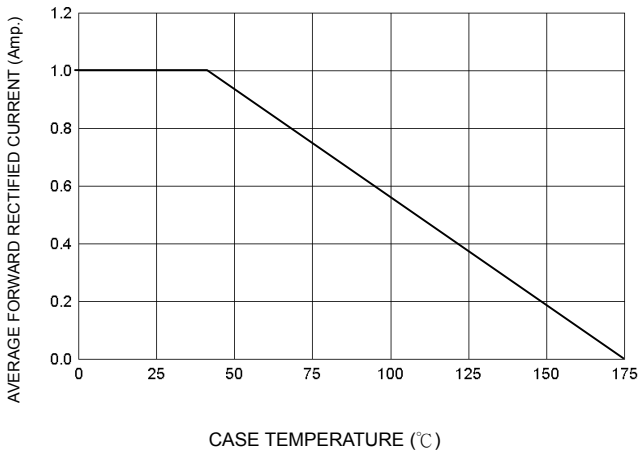


FIG-2 TYPICAL FORWARD CHARACTERISTICS

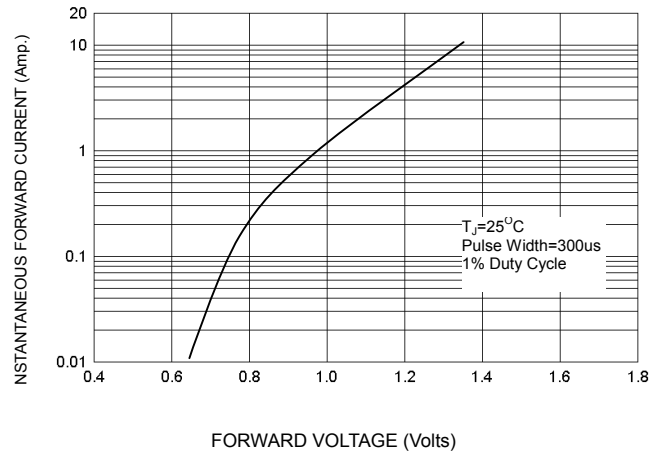


FIG-3 PEAK FORWARD SURGE CURRENT

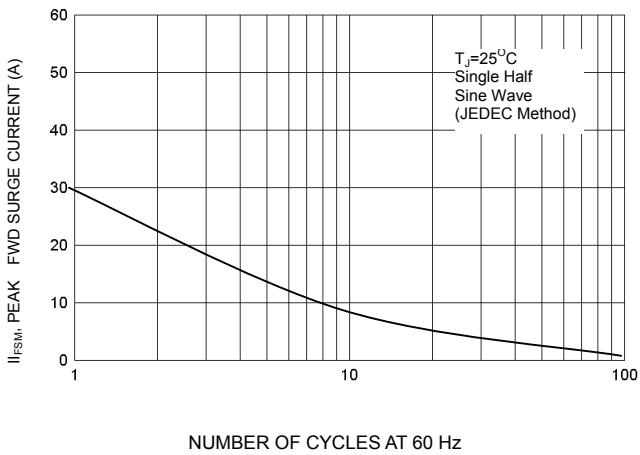


FIG-4 TYPICAL JUNCTION CAPACITANCE

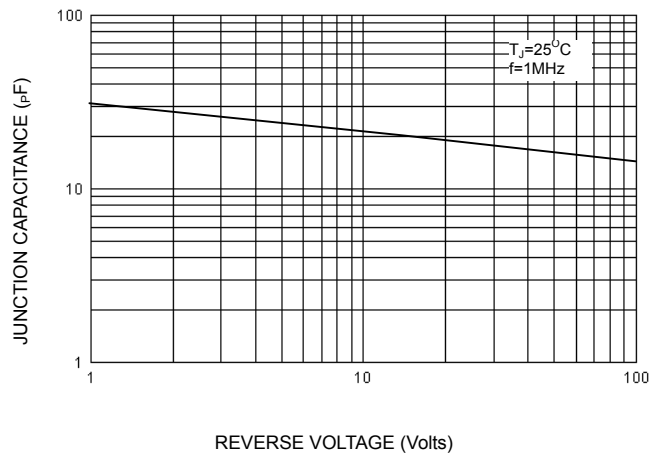
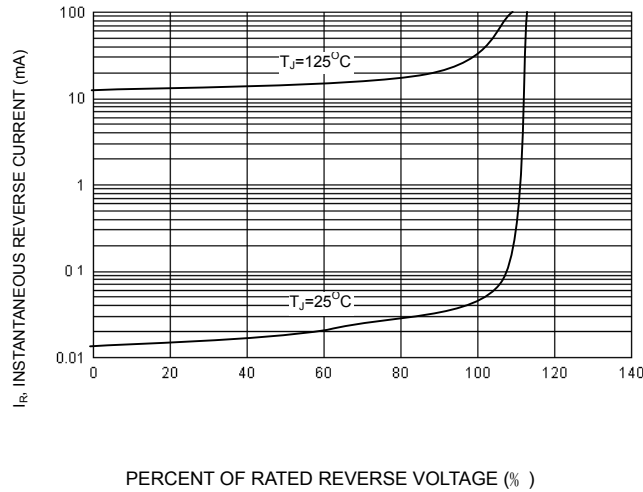


FIG-5 TYPICAL REVERSE CHARACTERISTICS



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