

### 1.0A Single-Phase Bridges

#### FEATURES :

- Glass passivated chip junctions
- Low forward voltage drop L .
- High temperature soldering  
260°C/10 seconds at terminals
- High surge current capability
- RoHS compliant.

#### MECHANICAL DATA :

- Case : ABS, Molded plastic body
- Terminals : Plated terminals solderable per MIL-STD-202E  
method 208C
- Polarity : As marking on body



#### MAXIMUM RATINGS (Ratings at 25 °C ambient temperature unless otherwise specified)

Characteristic	Symbol	AB1S	AB2S	AB4S	AB6S	AB8S	AB10S	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{DC}$	100	200	400	600	800	1000	V
RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Average Rectifier Forward Current at $T_A=40^\circ\text{C}$	$I_{(AV)}$	1.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30						A
Maximum forward voltage at 1.0A DC	$V_F$	1.1						V
Maximum DC reverse current at rated DC blocking voltage ( $T_A=25^\circ\text{C}$ / $T_A=125^\circ\text{C}$ )	$I_R$	5.0 / 500						uA
Typical Junction Capacitance <sup>(1)</sup>	$C_J$	15						pF
Typical Thermal resistance	$R_{\theta JA}$	40						°C/W
Typical Thermal resistance Junction to Lead	$R_{\theta JL}$	20						°C/W
Operating Junction temperature	$T_J$	-55 ~ +150						°C
Storage temperature range	$T_{STG}$	-55 ~ +150						°C

Note : 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C

RATINGS AND CHARACTERISTICS CURVES

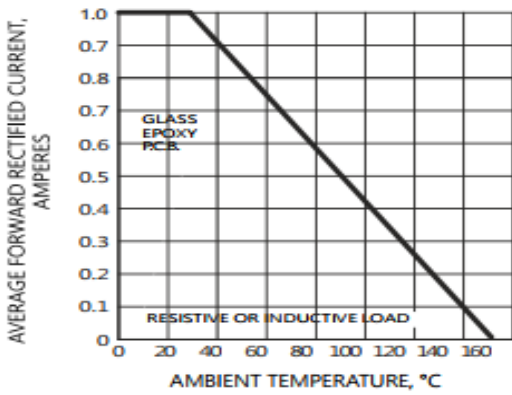


Figure 1. DERATING CURVE FOR OUTPUT AMBIENT TEMPERATURE, °C

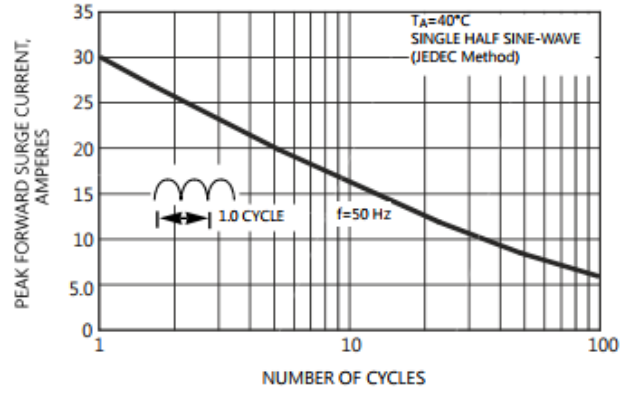


Figure 2. MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE

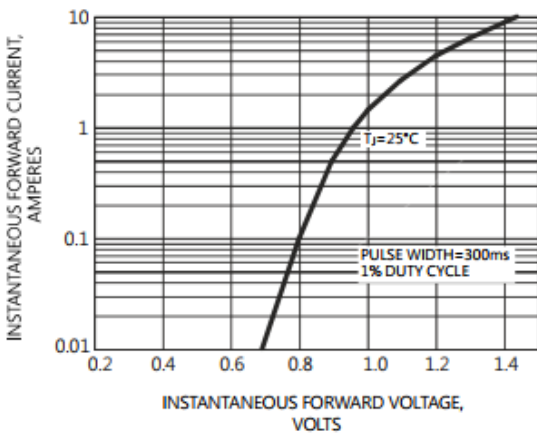


Figure 3. TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

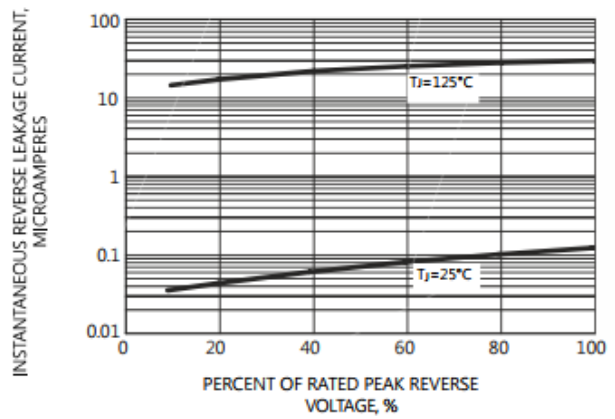


Figure 4. TYPICAL REVERSE LEAKAGE CHARACTERISTICS

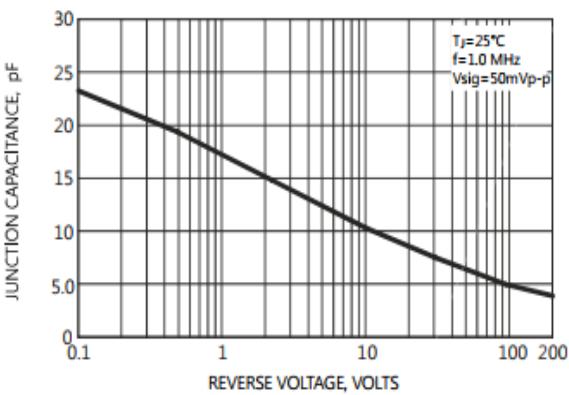
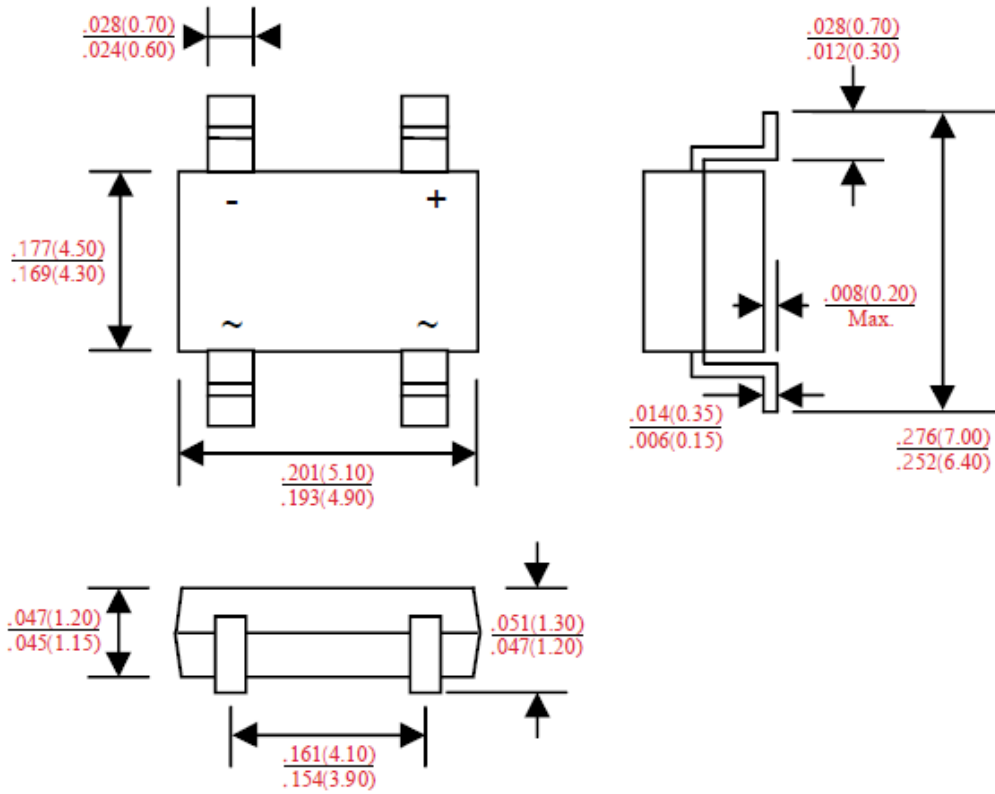


Figure 5. TYPICAL JUNCTION CAPACITANCE PER LEG

- Package outlines : Dimensions in inches (millimeters)



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