## **ABS1 THRU ABS10**

#### SURFACE MOUNT FAST SWITCHING RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

### FEATURES

- ♦Glass passivated chip junction.
- ◆Ideal for surface mounted applications.
- ◆Low leakage.
- ◆High forward surge current capability.
- ◆High temperature soldering guaranteed:

260°C/10 seconds at terminals.

### **Mechanical Data**

◆Case: Molded plastic body.

◆Epoxy: UL94V-0 rate flame retardant.

◆Polarity: Molded on body.

◆Lead: Plated terminals solderable per MIL-STD-202E

method 208C.

◆Weight: 0.003 ounce, 0.1 gram.

# **ABS** 0.60-0.70 0.15-0.25 3.90-4.10 0.05-0.15 4.90-5.10

**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%

| PARAMETER   | SYMBOL           | ABS1        | ABS2 | ABS3 | ABS4 | ABS6 | ABS8 | ABS10 | UNIT       |
|---|------------------|-------------|------|------|------|------|------|-------|------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{\text{RRM}}$ | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | V          |
| Maximum RMS Voltage   | $V_{\text{RMS}}$ | 35          | 70   | 140  | 280  | 420  | 560  | 700   | V          |
| Maximum DC Blocking Voltage   | $V_{DC}$         | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | V          |
| Maximum Average Forward Rectified Output Current, $0.06''$ (1.5mm) lead length at $T_L$ =90°C (Note 2)        | I(AV)            |             |      |      | 1.0  |      |      |       | A          |
| Peak Forward Surge Current,<br>8.3ms single half-sine-wave<br>superimposed on rated load (JEDEC method)       | I <sub>FSM</sub> | 30          |      |      |      |      |      |       | A          |
| Rating for Fusing (t<8.3ms)   | $I^2t$           | 10          |      |      |      |      |      |       | $A^2s$     |
| Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A  | $V_{\rm F}$      | 1.1         |      |      |      |      |      |       | V          |
| Maximum DC Reverse Current at $T_A=25^{\circ}\text{C}$ at Rated DC Blocking voltage $T_A=125^{\circ}\text{C}$ | $ m I_R$         | 5<br>0.5    |      |      |      |      |      |       | μΑ         |
|   |                  |             |      |      |      |      |      |       | mA         |
| Typical Junction Capacitance (Note 1)   | $C_{J}$          | 25          |      |      |      |      |      |       | pF         |
| Typical Thermal Resistance (Note 2)   | Rөjc             | 40          |      |      |      |      |      |       | °C/W       |
| Operating and Storage Temperature Range   | $T_J$ , $T$ STG  | -55 to +150 |      |      |      |      |      |       | $^{\circ}$ |

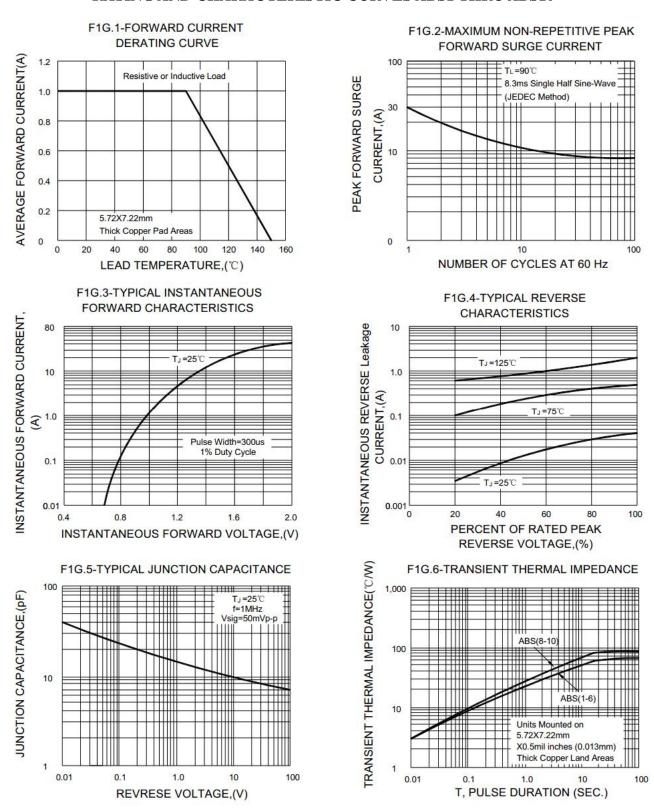
Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C.B. with 5.72 mm × 7.22 mm copper pads.

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### RATING AND CHARACTERISTIC CURVES ABS1 THRU ABS10



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.