## SURFACE MOUNT FAST SWITCHING DIODE

## REVERSE VOLTAGE - 70 Volts FORWARD CURRENT - 0.2 Ampere



Maximum Ratings \& Thermal Characteristics $@ T_{A}=25^{\circ} \mathrm{C}$ unless otherwise specified

| Characteristic | Symbol | BAV99 | Units |
| :--- | :---: | :---: | :---: |
| Non-Repetitive Peak Reverse Voltage <br> DC Blocking Voltage | $\mathrm{V}_{\mathrm{RM}}$ | 70 | V |
| Forward Current | $\mathrm{V}_{\mathrm{R}}$ | $\mathrm{I}_{\mathrm{F}}$ | 200 |
| Peak Forward Surge Current | $\mathrm{I}_{\text {FSM }}$ | 500 | mA |
| Power Dissipation | $\mathrm{P}_{\mathrm{D}}$ | mA |  |
| Thermal Resistance, Junction to Ambient | $\mathrm{R}_{\ominus \mathrm{JA}}$ | 225 | mW |
| Operating Temperature Range | $\mathrm{T}_{J}$ | 556 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| Storage Temperature Range | $\mathrm{T}_{\text {STG }}$ | 150 | ${ }^{\circ} \mathrm{C}$ |

Electrical Characteristics $@ T_{A}=25^{\circ} \mathrm{C}$ unless otherwise specified

| Characteristic | Test Condition | Symbol | Min. | Typ. | Max. | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reverse Breakdown Voltage | $\mathrm{I}_{\mathrm{R}}=100 \mathrm{uA}$ | $V_{\text {BR }}$ | 70 | -- | -- | V |
| Maximum Forward Voltage | $\begin{aligned} & I_{F}=1 \mathrm{~mA} \\ & I_{F}=10 \mathrm{~mA} \\ & I_{F}=50 \mathrm{~mA} \\ & I_{F}=150 \mathrm{~mA} \end{aligned}$ | $V_{F}$ |  | -- | $\begin{aligned} & 715 \\ & 855 \\ & 1000 \\ & 1250 \\ & \hline \end{aligned}$ | mV |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $V_{R}=75 \mathrm{~V}$ | $I_{R}$ | -- | -- | 2.5 | uA |
| Typical Diode Capacitance | $\mathrm{V}_{\mathrm{R}}=1 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ | $\mathrm{C}_{\text {D }}$ | -- | -- | 1.5 | pF |
| Reverse Recovery time | $\begin{aligned} & \text { Irr=1mA, } \\ & \mathrm{I}_{\mathrm{F}}=\mathrm{I}_{\mathrm{R}}=10 \mathrm{~mA}, \\ & \mathrm{R}_{\mathrm{L}}=100 \Omega \end{aligned}$ | trr | -- | -- | 6 | nS |
| REV. 4, Jan-2013, KSYR40 |  |  |  |  |  |  |

RATING AND CHARACTERISTIC CURVES
BAV99

Fig. 1 Typical Forward Characteristics


Fig. 2 Typical Reverse Characteristics


Fig. 3 Total Capacitance vs. Reverse Voltage


## Device Marking :

| Device P/N | Marking | Equivalent Circuit Diagram |
| :--- | :--- | :---: |
| BAV99 | A7 | 3 O |

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1N4001-T 1N4001W

