

Dual series switching diode

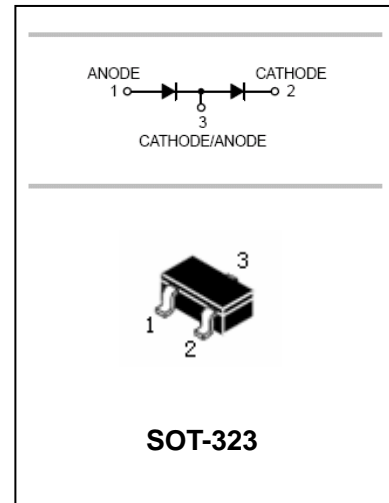
BAV99W

FEATURES

- Fast switching speed.
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion



Lead-free



APPLICATIONS

- For general purpose switching application.

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAV99W | KGJ | SOT-323 |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Value | Unit |
|------------------------------------------------|----------------|------------|------|
| Non repetitive peak reverse voltage | V_{RM} | 100 | V |
| Repetitive peak reverse voltage | V_{RRM} | 75 | V |
| Working peak reverse voltage | V_{RWM} | | |
| DC Reverse voltage | V_R | | |
| Peak forward surge current @t=1.0s @t=1.0µs | I_{FSM} | 1.0 2.0 | A |
| Forward continuous current | I_{FM} | 300 | mA |
| Average rectified output current | I_O | 150 | mA |
| Power dissipation | P_d | 200 | mW |
| Operating and storage temperature range | T_j, T_{STG} | -65-150 | °C |

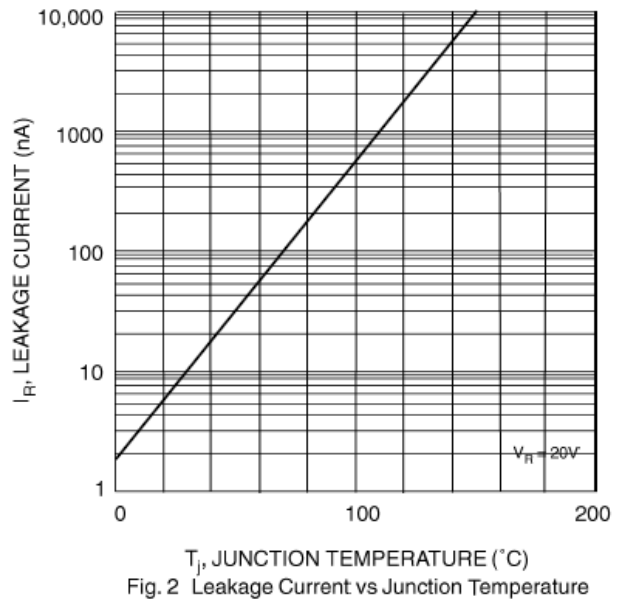
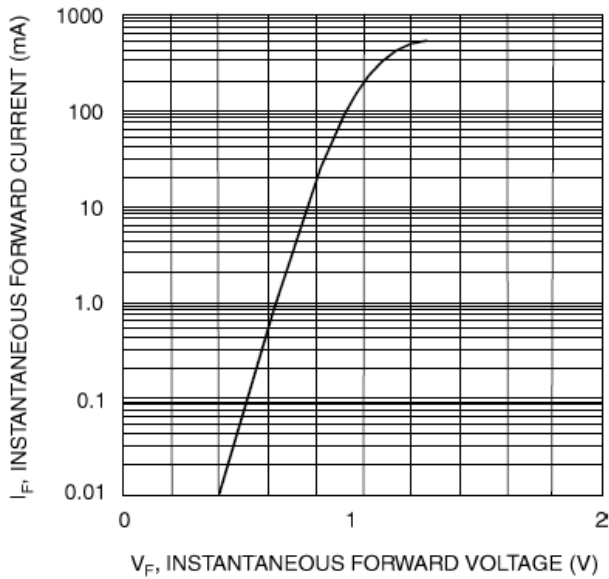
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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|---------------------------------|----------|------------------------------------------------------|-----|----------------------------|---------|
| Reverse voltage leakage current | I_R | $V_R=75V$ $V_R=20V$ | | 2.5 25 | A nA |
| Forward voltage | V_F | $I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$ | | 715 855 1000 1250 | mV |
| Junction capacitance | C_j | $V_R=0V$ $f=1MHz$ | | 2.0 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=10mA$ $V_R=5V$ $R_C=100\Omega$ | | 4 | nS |

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



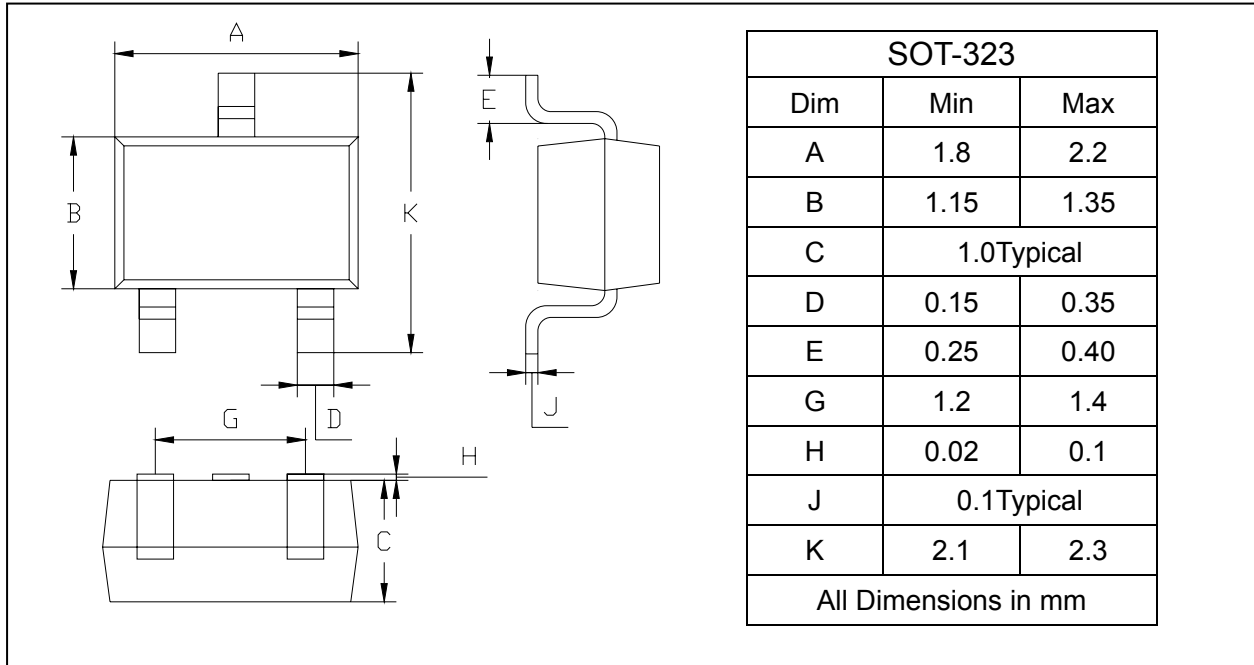
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PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



PACKAGE INFORMATION

| Device | Package | Shipping |
|--------|---------|----------------|
| BAV99W | SOT-323 | 3000/Tape&Reel |