

Dual surface mount switching diode

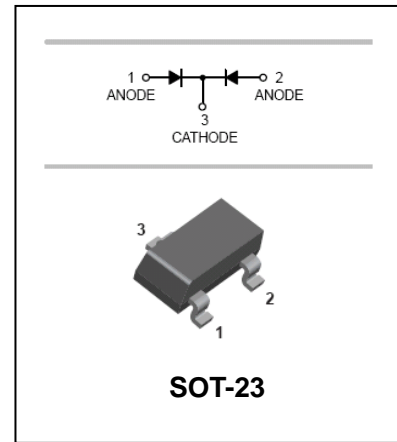
BAV74

FEATURES

- For high-speed switching application.
- Common cathode.



Lead-free



APPLICATIONS

- Small signal switching.

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAV74 | JA | SOT-23 |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Diode reverse voltage | V_R | 50 | V |
| Peak Reverse Voltage | V_{RM} | 50 | V |
| Forward Current | I_F | 200 | mA |
| Surge forward current, $t=1\mu s$ | I_{FS} | 4.5 | A |
| Total Power Dissipation $T_s=35^\circ C$ | P_{tot} | 250 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature range | T_{stg} | -65 to +150 | °C |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

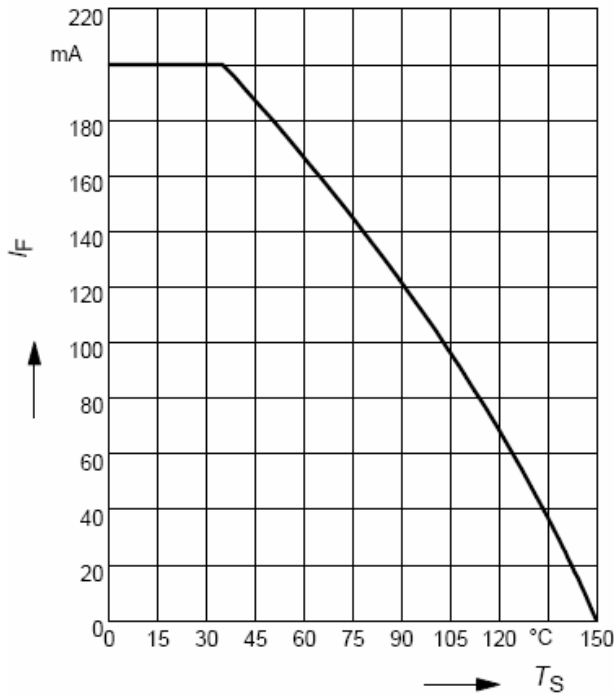
| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|---------------------------------|-------------|--|-----|------------|---------|
| Reverse breakdown voltage | $V_{(BR)R}$ | $I_R=100\mu A$ | 50 | | V |
| Reverse voltage leakage current | I_R | $V_R=50V$ $V_R=50V T_A=150^\circ C$ | | 0.1 100 | μA |
| Forward voltage | V_F | $I_F=100mA$ | | 1 | V |
| Diode capacitance | C_D | $V_R=0V, f=1MHz$ | | 2.0 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=10mA, R_L=100\Omega$ | | 4 | nS |

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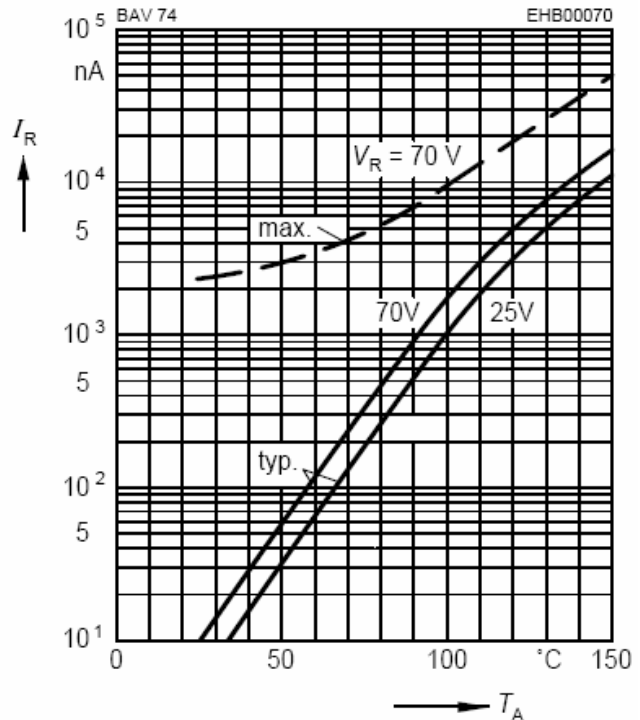
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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Forward current $I_F = f(T_S)$

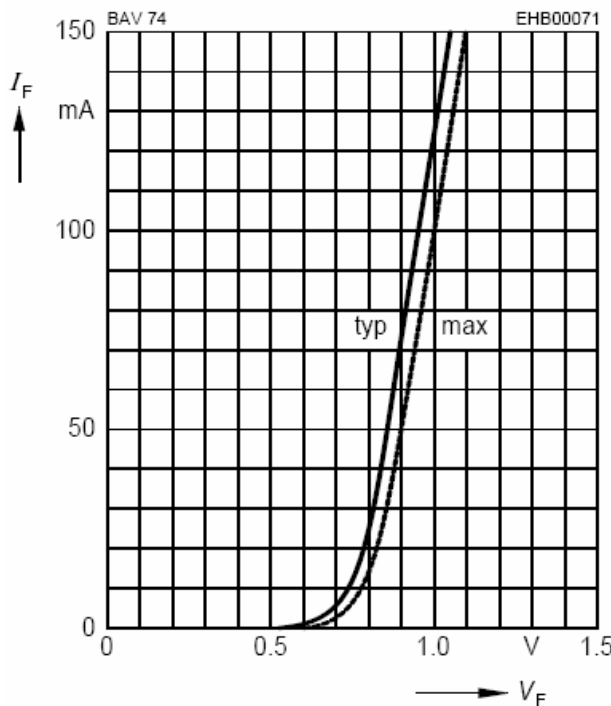


Reverse current $I_R = f(T_A)$



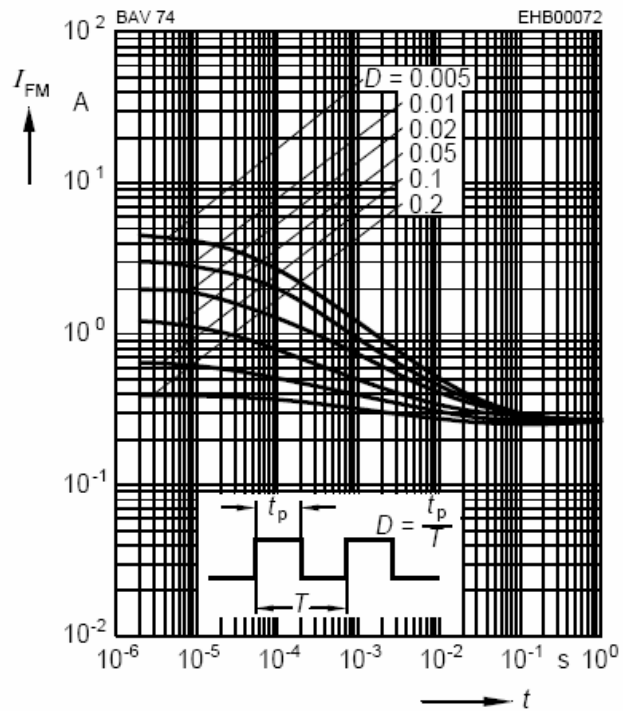
Forward current $I_F = f(V_F)$

$T_A = 25^\circ\text{C}$



Peak forward current $I_{FM} = f(t_p)$

$T_A = 25^\circ\text{C}$



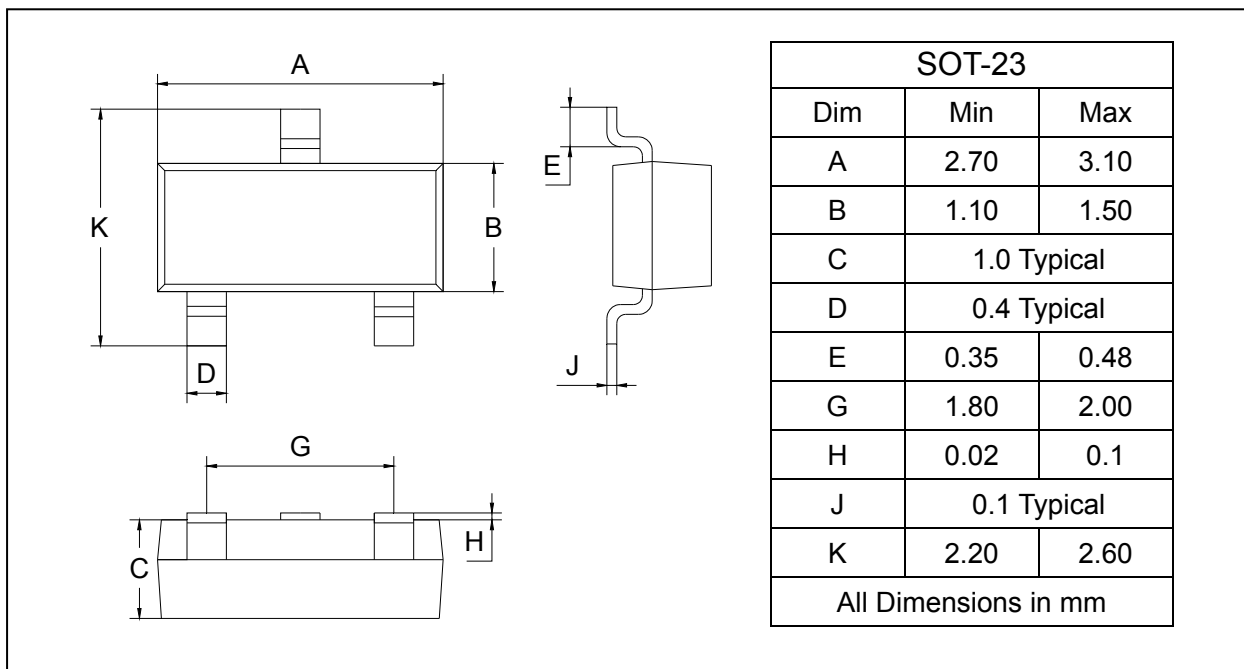
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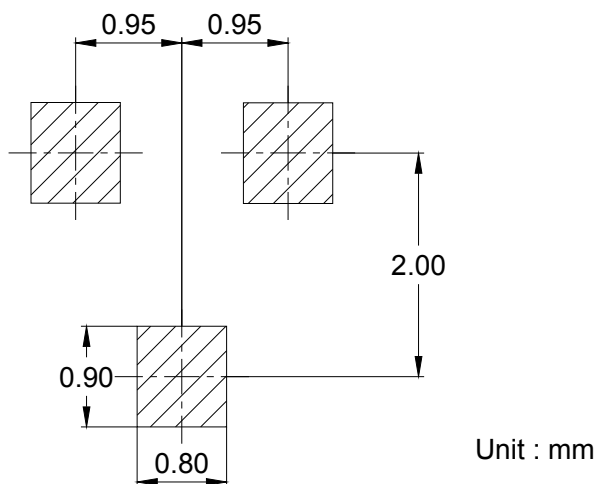
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

| Device | Package | Shipping |
|--------|---------|----------------|
| BAV74 | SOT-23 | 3000/Tape&Reel |