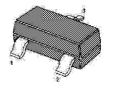


BAV23A/C/S

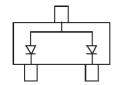
SURFACE MOUNT SWITCHING DIODE

Features

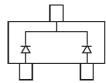
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



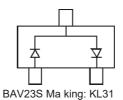
SOT-23 Plastic Package











Maximum Ratings @ TA = 25°C unless otherwise specified

| Characteristic | | Value | Unit |
|---|---------------------|-------------|------|
| Repetitive Peak Reverse Voltage | V _{RRM} | 250 | V |
| Working Peak Reverse Voltage | V _{RWM} | 200 | V |
| DC Blocking Voltage | V _R | 200 | |
| RMS Reverse Voltage | V _{R(RMS)} | 141 | V |
| Forward Continuous Current | FM | 400 | mA |
| Non-Repetitive Peak Forward Surge C rrent @ t = 1.0μs | FSM | 9.0 | |
| @ t = 100µs | FOW | 3.0 1.7 | A |
| @ t = 10ms | | 1.7 | |
| Repetitive Peak Forward Surge Current | FRM | 625 | mA |
| Power Dissipation (Note 2) | Pd | 350 | mW |
| Thermal Resistance Junction to Am ient Air | R _{BJA} | 357 | °C/W |
| Operating and Storage Temperature Range | I, I STG | -65 to +150 | °C |

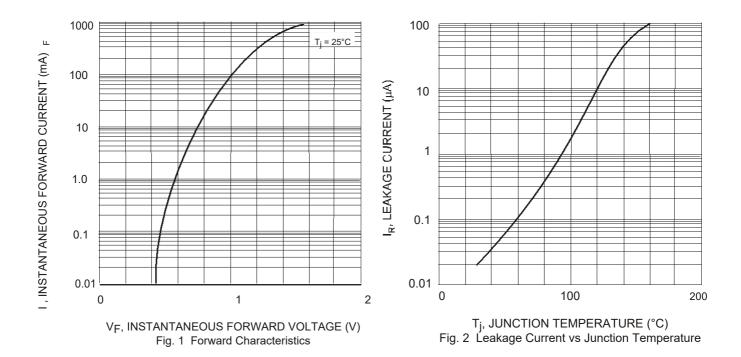
Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Min | Max | Unit | Test Condition |
|---|--------|-----|------|------|--|
| Forward Voltage (Note 1) | VF | | 1.0 | \/ | I _F = 100mA |
| Forward Voltage (Note 1) | V F | | 1.25 | V | IF = 200mA |
| Reverse Current @ Rated DC Blocking Voltage (Note 1) | IR | | 100 | nA | T _i = 25°C |
| Reverse Current (@ Nated DC Blocking Voltage (Note 1) | אי | | 100 | μΑ | T _İ = 150°C |
| Total Capacitance | CT | | 5.0 | pF | V _R = 0, f = 1.0MHz |
| | t | | | | $I_F = I_R = 30 \text{mA},$ |
| Reverse Recovery Time | rr | _ | 50 | ns | $I_{rr} = 0.1 \text{ x } I_{R}, R_{L} = 100\Omega$ |

Notes: 1. Short duration test pulse used to minimize self-heating effect.



Typical Characteristics





PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23

