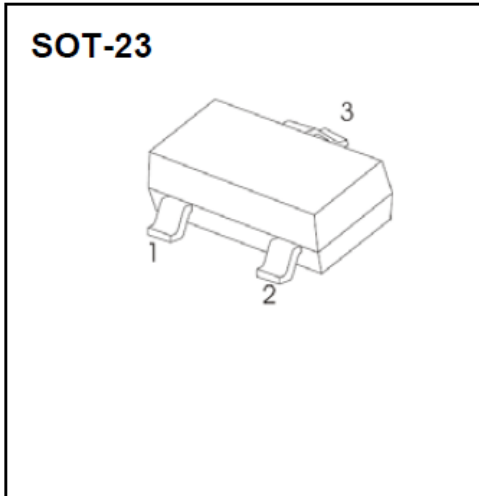


Dual Switching Diode



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications

| BAV23A | BAV23C | BAV23S |
|---------------------|---------------------|----------------------|
| | | |
| MARKING: KT7 | MARKING: KT6 | MARKING: KL31 |

■ Maximum Rating, ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

| Item | Symbol | Unit | Value |
|---|------------|-----------------------------|-------------|
| Repetitive peak reverse voltage | V_{RRM} | V | 250 |
| Average Rectified Output Current | I_o | mA | 200 |
| Power Dissipation | P_D | mW | 350 |
| Thermal Resistance from Junction to Ambient | R_{thJA} | $^{\circ}\text{C}/\text{W}$ | 357 |
| Operation Junction Temperature | T_J | $^{\circ}\text{C}$ | -55 to +150 |
| Storage Temperature | T_{STG} | $^{\circ}\text{C}$ | -55 to +150 |

■ Ordering Information (Example)

| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|--------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BAV23C | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7" reel |

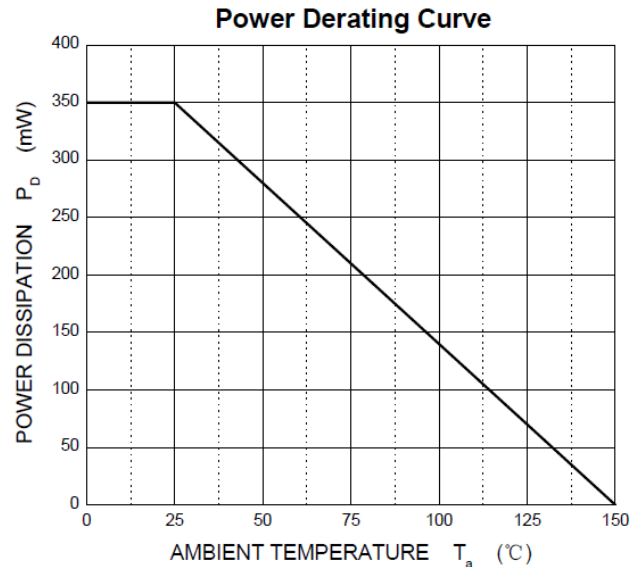
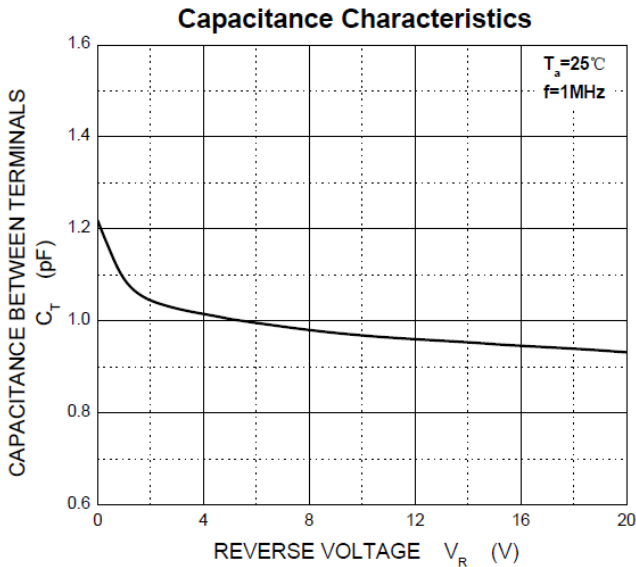
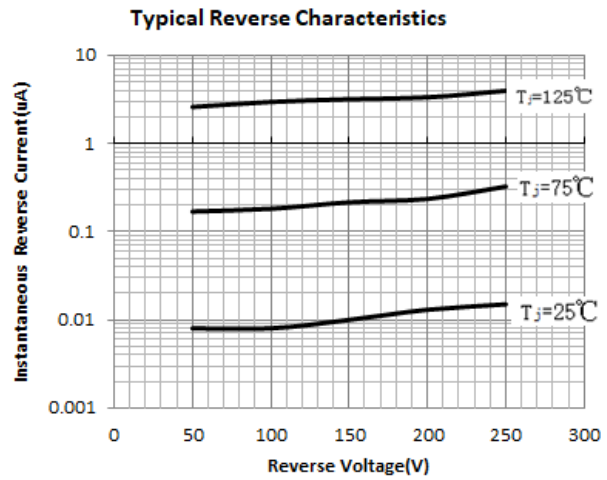
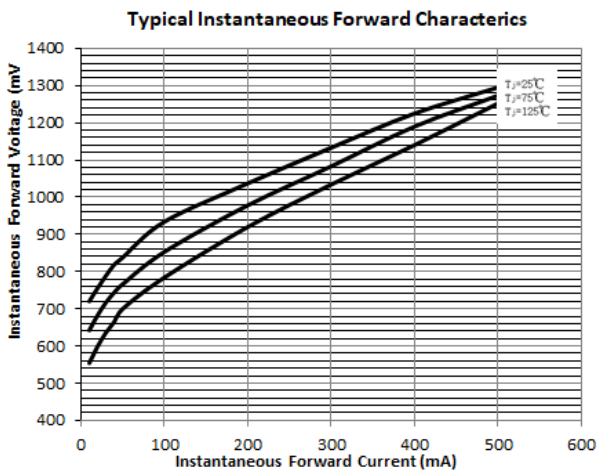


BAV23A/C/S

■ Electrical Characteristics (T_a=25°C Unless otherwise specified, Per Leg)

| Item | Symbol | Unit | Conditions | Min | Typ | Max |
|-----------------------|------------------|------|--|-----|-----|------|
| Reverse Voltage | V _{BR} | V | I _R =100uA | 250 | | |
| Forward Voltage | V _F | V | I _{FM} =100mA, T _J =25°C | | | 1 |
| | | | I _{FM} =200mA, T _J =25°C | | | 1.25 |
| Reverse Current | I _R | uA | V _R =200V | | | 0.1 |
| Total Capacitance | C _{tot} | pF | f=1.0MHz, V _R =0V | | | 5 |
| Reverse Recovery Time | T _{rr} | ns | I _F =I _R =30mA, V _R =6V, R _L =100Ω, I _{rr} =3mA | | | 50 |

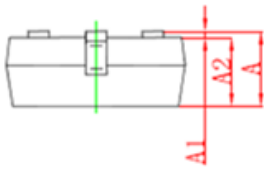
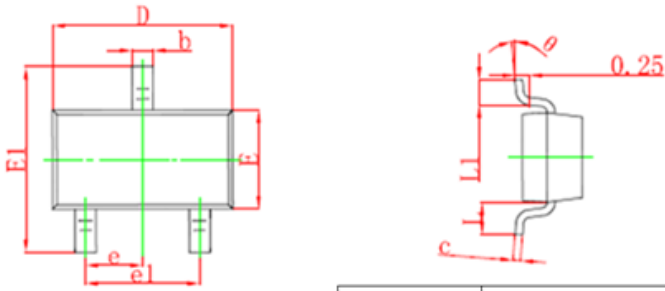
■ Typical Characteristics (Per Leg)





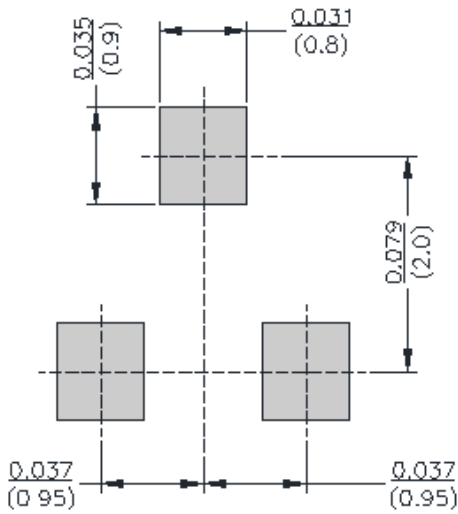
BAV23A/C/S

■SOT-23 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950TYP | | 0.037TYP | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550REF | | 0.022REF | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |

■SOT-23Suggested Pad Layout





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