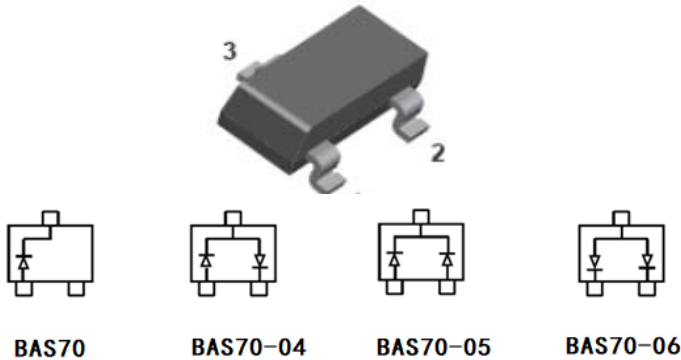


Schottky Barrier Diode



Features

- Meets MSL level 1
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

Mechanical Data

- **Package:** SOT-23
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

Marking:

| | |
|----------|----|
| BAS70 | 73 |
| BAS70-04 | 74 |
| BAS70-05 | 75 |
| BAS70-06 | 76 |

■ Maximum Rating, (Ta=25°C Unless otherwise specified)

| Item | Symbol | Unit | Value |
|---|------------|------|-------------|
| Continuous Reverse Voltage | V_R | V | 70 |
| Forward Continuous Current | I_F | mA | 70 |
| Non-Repetitive Peak Forward Surge Current @ t = 8.3ms | I_{FSM} | A | 0.1 |
| Total Power Dissipation @ T _A =25°C | P_D | mW | 200 |
| Thermal Resistance, Junction to Ambient | R_{thJA} | °C/W | 500 |
| Operation Junction Temperature | T_J | °C | -55 to +125 |
| Storage Temperature | T_{STG} | °C | -55 to +125 |

■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BAS70 | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7" reel |
| BAS70-04 | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7" reel |
| BAS70-05 | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7" reel |
| BAS70-06 | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7" reel |

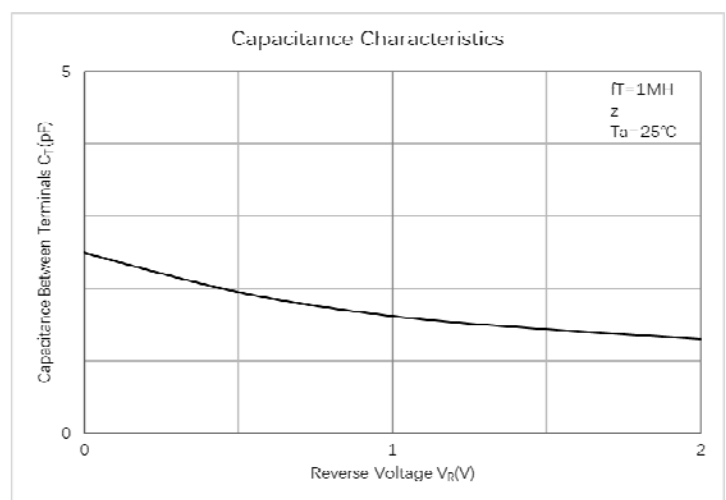
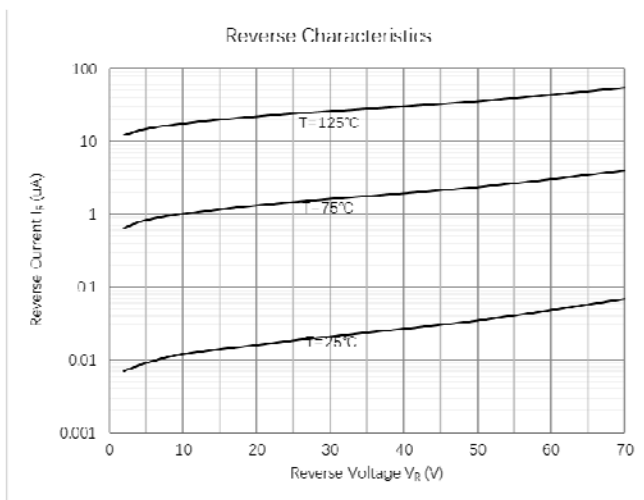
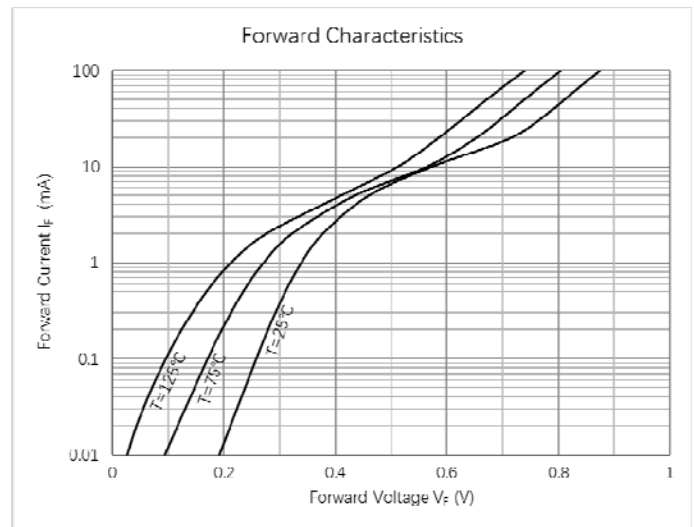
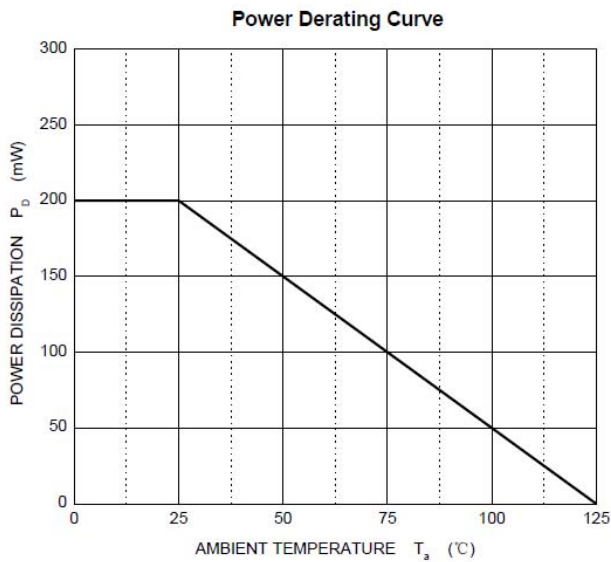


BAS70 THRU BAS70-06

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

| Item | Symbol | Unit | Conditions | Value |
|---------------------------------------|-----------------|------|---|-------|
| Maximum Instantaneous Forward Voltage | V _F | V | I _{FM} =1mA | 0.41 |
| | | | I _{FM} =15mA | 1 |
| Continuous Reverse Voltage | V _R | V | I _R =10uA | 70 |
| Maximum DC Reverse Current | I _R | uA | V _R =50V | 0.2 |
| Maximum Junction Capacitance | C _J | pF | f=1.0MHz, V _R =1.0V | 2 |
| Maximum Reverse Recovery Time | T _{rr} | ns | I _F =I _R =10mA, I _(REC) =1mA | 5 |

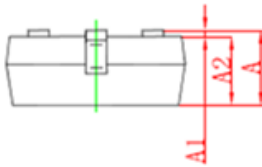
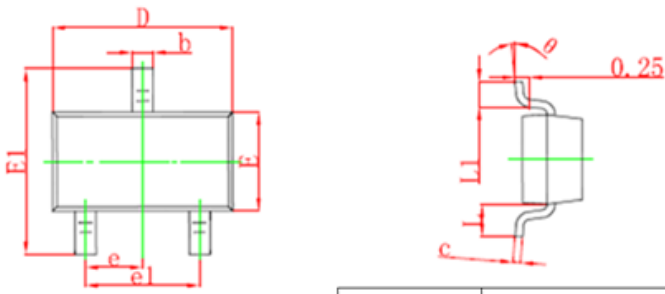
■ Typical Characteristics





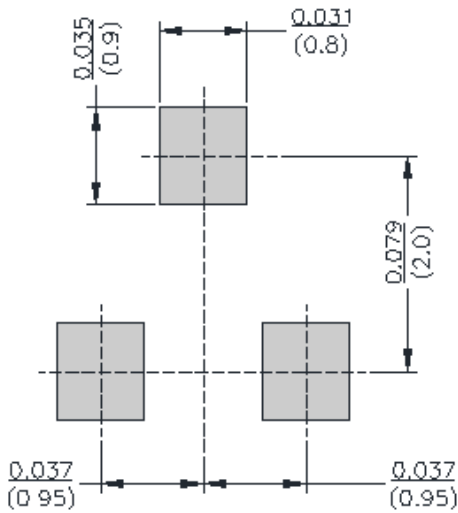
BAS70 THRU BAS70-06

■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





BAS70 THRU BAS70-06

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