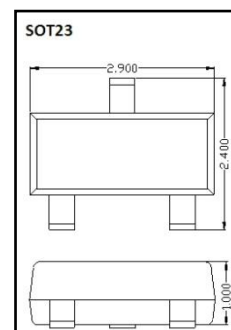


Schottky Barrier DIODE / DATA SHEET

BAS70—BAS70-06

- ◇ High Conductance
- ◇ Low Current Leakage
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

| MCC Catalog Number | Device Marking | Type | Pin Configuration See page 2 |
|--------------------|----------------|--------|---------------------------------|
| BAS70 | 73 | Single | Figure1 |
| BAS70-04 | 74 | Dual | Figure2 |
| BAS70-05 | 75 | Dual | Figure3 |
| BAS70-06 | 76 | Dual | Figure4 |

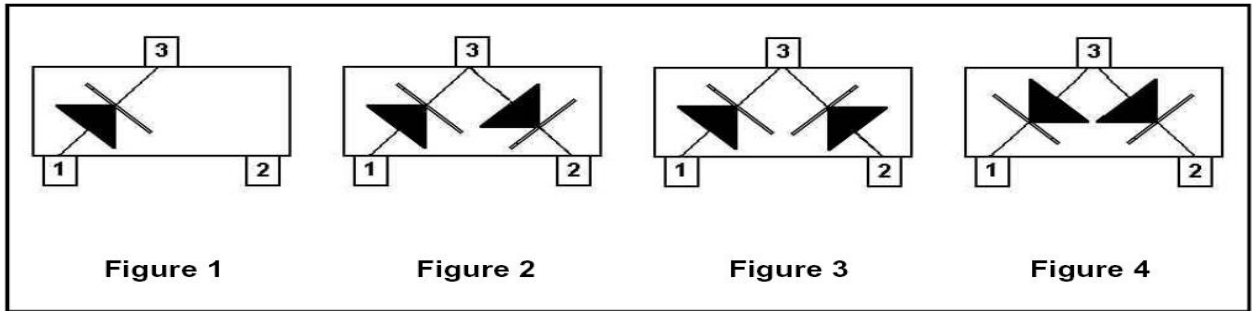


MAXIMUM RATINGS (Ta = 25 °C)

| Symbol | Parameter | Value | Units |
|-----------|---|------------|-------|
| V_R | Reverse Voltage | 70 | V |
| I_F | Forward Continuous Current | 70 | mA |
| P_{tot} | Power Dissipation | 200 | mW |
| T_J | Operating Junction Temperature Range | -55 to 125 | °C |
| I_{FSM} | Peak Forward Surge Current (t=1S.NON-Repetitive) | 0.1 | A |
| T_{stg} | Storage Temperature Rance | -55 to 150 | °C |
| T_J | Soldering temperature during | 260 | °C |
| R_j | Thermal Resistance Junction to Ambient | 430 | °C/W |

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

| Symbol | Parameter | Test Conditions | Min | Max | Units |
|----------|---------------------------------|-------------------------------|-----|-------------|-------|
| V_F | Forward Voltage | $I_F=1mA$ $I_F=15mA$ | | 0.41 1.0 | V |
| V_R | Reverse breakdown voltage | $I_R=10uA$ | 70 | | V |
| I_R | Reverse voltage leakage current | $V_R=50V$ | | 200 | nA |
| C_J | Typical Junction Capacitance | $V_R=0V, f=1.0MHz$ | | 2 | pF |
| T_{rr} | Reverse recovery time | $I_F=I_R=10mA, I_{(REG)}=1mA$ | | 5 | nS |



ORDERING INFORMATION

| Device | Package | Shipping | Tape wide | Emboss pitch | Tape specification | Notes |
|-----------------------|---------|---------------------------------|-----------|--------------|--------------------|-------|
| BAS70---- BAS70-06 | SOT23 | Tape & Reel 3000pcs /7" Reel | 8mm | 4mm | Conductive | |

PACKAGE DIMENSIONS

Package Outline : SOT23

| Symbol | Dimensions in mm | |
|--------|------------------|-------|
| | Min. | Max. |
| A | 2.800 | 3.040 |
| B | 2.100 | 2.640 |
| C | 1.200 | 1.400 |
| D | 0.890 | 1.030 |
| E | 1.780 | 2.050 |
| F | 0.450 | 0.600 |
| G | 0.013 | 0.100 |
| H | 0.900 | 1.110 |
| J | 0.090 | 0.180 |
| K | 0.370 | 0.510 |

Note:
 1. Halogen free ,EMC
 2. Pb free solder
 3: Lead thickness solder plating
 4. Lead frame CAC-5
 5. Other Tolerance ± 0.05
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions
 7. Unit : mm

SOT23 Package Outline

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[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)
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