



SURFACE MOUNT SCHOTTKY DIODES

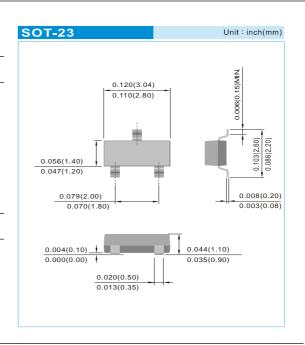
VOLTAGE 70 Volt CURRENT 0.2 Ampere

FEATURES

- · Fast switching speed
- Surface mount package ideally suited for automatic insertion
 Electrical identical standard JEDEC
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.008 grams



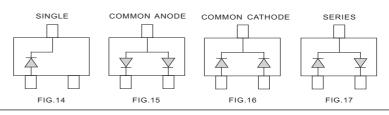
ABSOLUTE RATINGS

| Parameter | Symbol | Value | Units |
|--|---------|-------|-------|
| Reverse Voltage | VR | 70 | ٧ |
| Peak Reverse Voltage | Vrrm | 70 | V |
| Average Rectified Current at Temp=25°C | I F(AV) | 0.2 | Α |
| Non-repetitive Peak Forward Surge Current at t=1.0 s | İFSM | 0.6 | Α |

THERMAL CHARACTERISTICS

| Parameter | Symbol | BAS70 BAS70A | | BAS70C | BAS70S | Units |
|---|--------|--------------|-----------------|-------------------|--------|-------|
| Marking code | - | A70 | A72 | A73 | A74 | - |
| Power Dissipation | Po | | mW | | | |
| Thermal Resistance , Junction to Ambient (Note 1) | RθJA | | °C/W | | | |
| Operating Junction Temperature | TJ | | °C | | | |
| Operating Storage Temperature | Тѕтс | -55 to 150 | | | | |
| Circuit Configuration | - | SINGLE | COMMON ANODE | COMMON CATHODE | SERIES | - |

Note: 1. Mounted on min pad conditions using FR-4 PCB







ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Test Condition | Min. | Тур. | Max. | Units |
|------------------------------|--------|--|------|------|----------------------|-------|
| Reverse Breakdown Voltage | V(BR) | I R=10 uA | 70 | | -1 | V |
| Reverse Current | IR | V _R =70 V V _R =50 V | | | 1.0 0.1 | μΑ |
| Forward Voltage | VF | F=1.0mA F=10mA F=15mA | -1- | | 0.41 0.75 1.00 | V |
| Maximum Junction Capacitance | Сı | VR=0V, f=1.0MHz | | | 2.0 | pF |





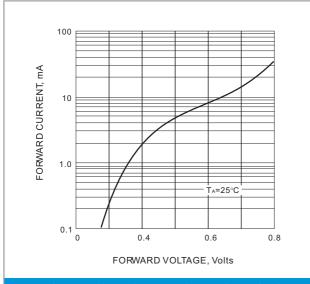


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

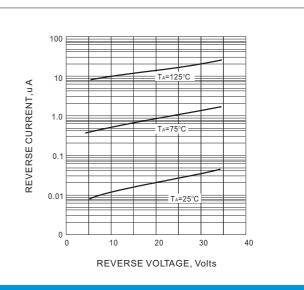


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

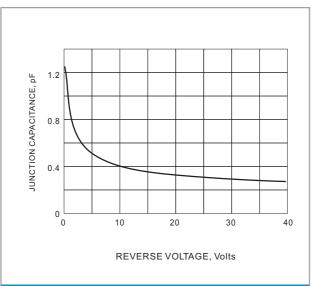


FIG. 3 TYPICAL JUNCTION CAPACITANCE

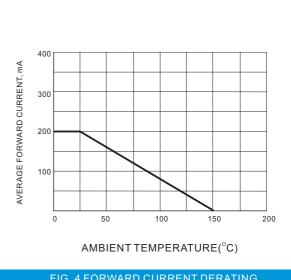


FIG. 4 FORWARD CURRENT DERATING

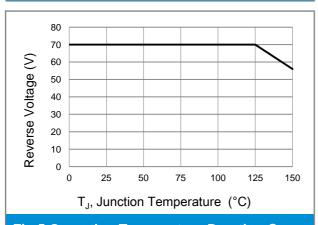
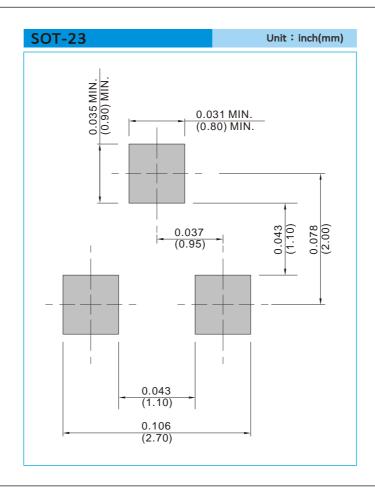


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

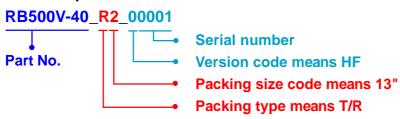




Part No_packing code_Version

BAS70_R1_00001 BAS70_R2_00001

For example:



| Packing Code XX | | | | Version Code XXXXX | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | |
| Tube Packing (T/P) | Т | 26mm | X | | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | | |





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