

BAS386

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

VOLTAGE 50 Volts **CURRENT** 0.5 Amperes

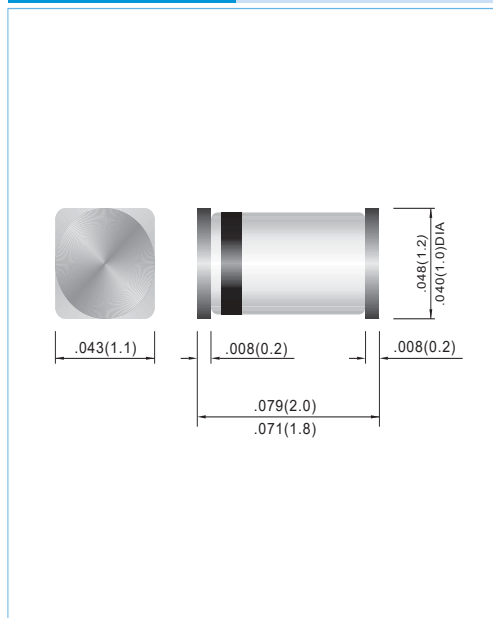
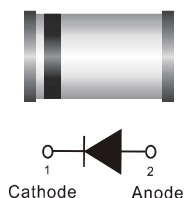
MICRO-MELF Unit : inch (mm)

FEATURES

- Integrated protection ring against static discharge
- Very low forward voltage
- Lead (Pb)-free component
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded Glass MICRO-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | BAS386 | UNITS |
|---|------------|--------------------------------------|---------|
| Reverse Voltage | V_R | 50 | V |
| Forward Current | I_F | 200 | mA |
| Repetitive Peak Forward Current $t_p \leq 1$ s | I_{FRM} | 500 | mA |
| Peak Forward Surge Current $t_p = 10$ ms | I_{FSM} | 5 | A |
| Maximum Forward Voltage | V_F | 0.30 0.38 0.45 0.60 0.90 | V |
| Maximum Reverse Current $V_R=40$ V | I_R | 5 | μ A |
| Diode capacitance $V_R=1$ V, $f=1$ MHz | C_D | 8.0 | pF |
| Junction Ambient on PC board 50mmx50mmx1.6mm | R_{thJA} | 320 | K/W |
| Storage Temperature Range | T_{STG} | -55 to +150 | °C |
| Junction Temperature | T_J | 125 | °C |

BAS386

RATING AND CHARACTERISTIC CURVES

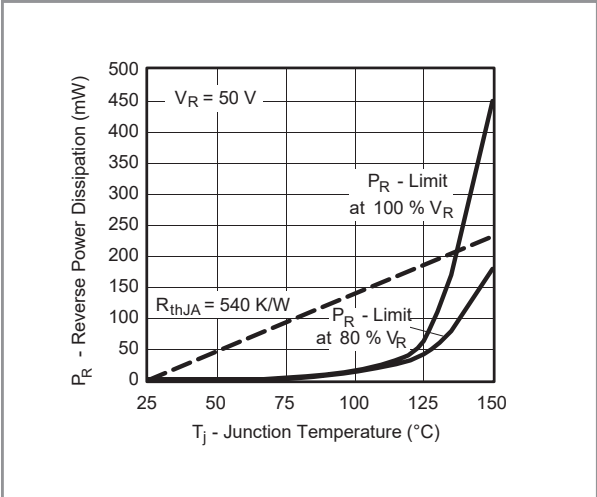


Fig.1 Max. Reverse Power Dissipation vs. Junction Temperature

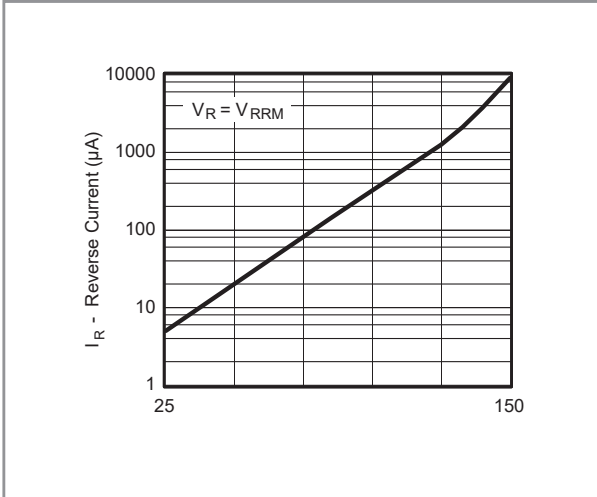


Fig. 2 Reverse Current vs. Junction Temperature

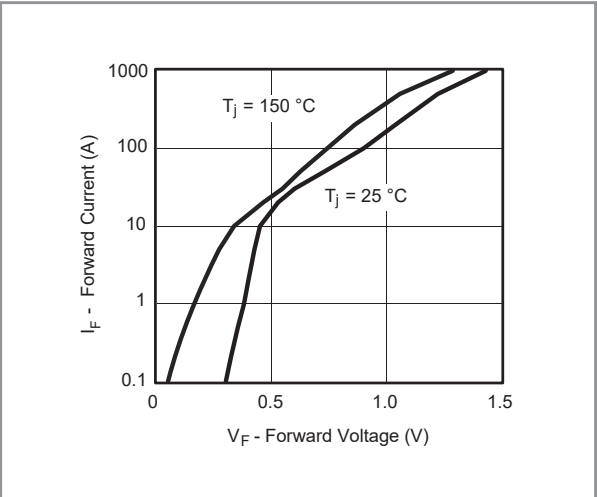


Fig. 3 Forward Current vs. Forward Voltage

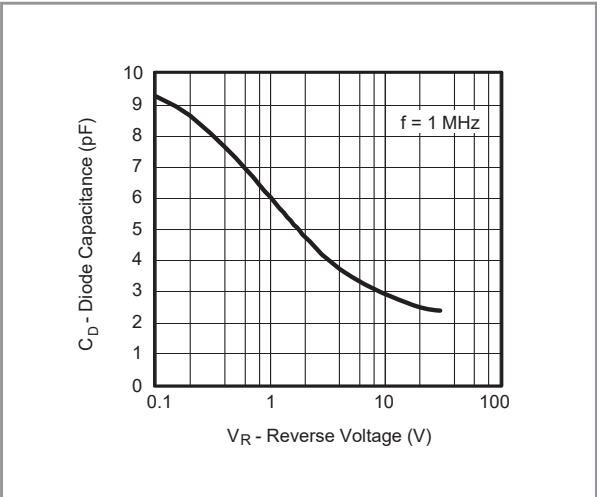


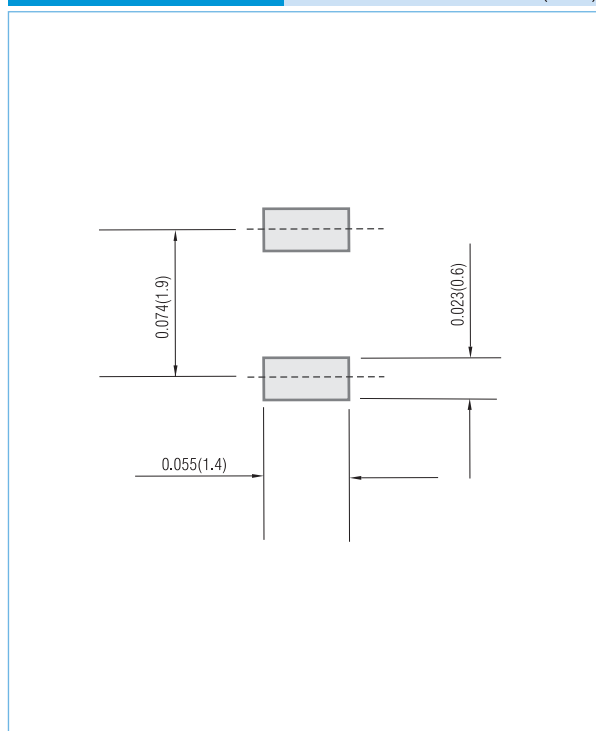
Fig. 4 Diode Capacitance vs. Reverse Voltage

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MOUNTING PAD LAYOUT

MICRO-MELF

Unit: inch (mm)



ORDER INFORMATION

- Packing information
- T/R - 10K per 13" plastic Reel
- T/R - 3K per 7" plastic Reel

BAS386

Part No_packing

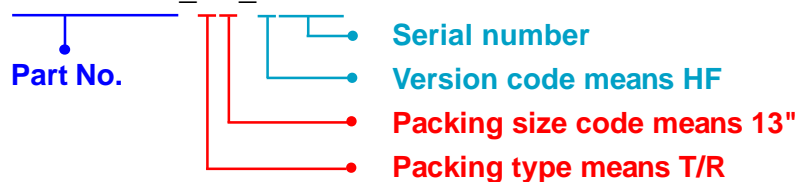
code_Version

BAS386_R1_10001

BAS386_R2_10001

For example :

RB500V-40_R2_00001



| Packing type | Packing Code XX | | | Version Code XXXXX | | |
|--------------------------------------|------------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| | 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) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 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 | | | |

BAS386

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