

# BAS386

## SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

**VOLTAGE** 50 Volts **CURRENT** 0.5 Amperes

**MICRO-MELF** Unit : inch (mm)

### FEATURES

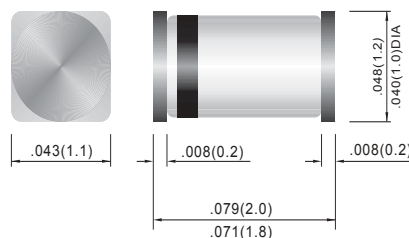
- Integrated protection ring against static discharge
- Very low forward voltage
- Lead (Pb)-free component
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

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

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>J</sub>=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 $t_p \leq 1s$	$I_{FRM}$	500	mA
Peak Forward Surge Current $t_p = 10ms$	$I_{FSM}$	5	A
Maximum Forward Voltage $I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$	$V_F$	0.30 0.38 0.45 0.60 0.90	V
Maximum Reverse Current $V_R=40V$	$I_R$	5	$\mu A$
Diode capacitance $V_R=1V, f=1MHz$	$C_D$	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

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## RATING AND CHARACTERISTIC CURVES

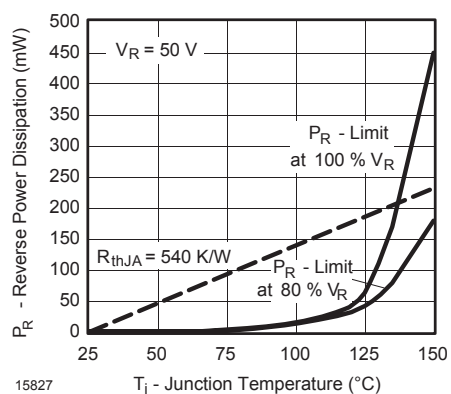


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

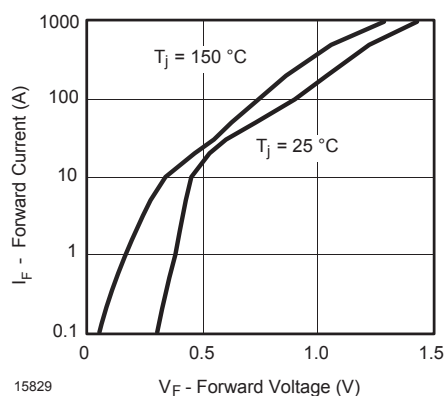


Figure 3. Forward Current vs. Forward Voltage

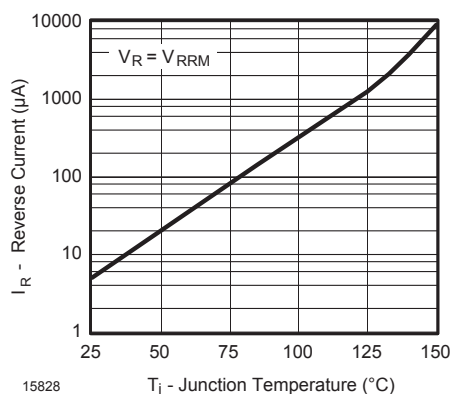


Figure 2. Reverse Current vs. Junction Temperature

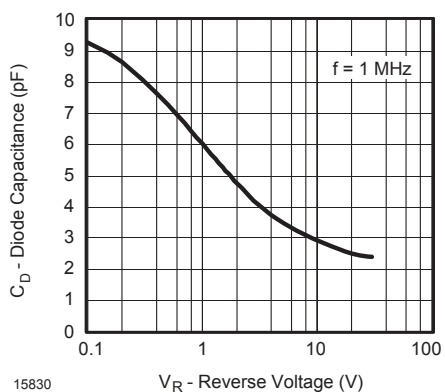


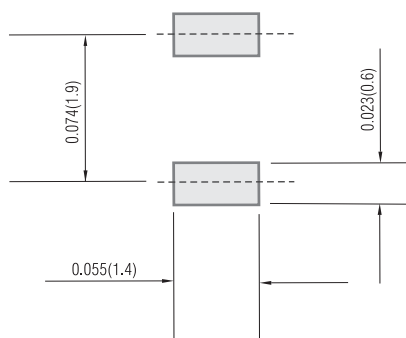
Figure 4. Diode Capacitance vs. Reverse Voltage

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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

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**Part No\_packing**  
**code\_Version**

BAS386\_R1\_10001

BAS386\_R2\_10001

**For example :**

**RB500V-40\_R2\_00001**



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

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