

# BAS381

## SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

**VOLTAGE** 40 Volts **CURRENT** 0.15 Amperes

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

### FEATURES

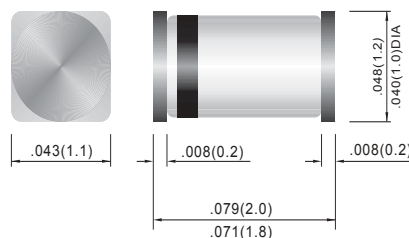
- Low capacitance
- Low leakage current
- Low forward voltage drop
- Very low switching time
- In compliance with EU RoHS 2002/95/EC directives

### 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	BAS381	UNITS
Reverse Voltage	$V_R$	40	V
Forward Current	$I_F$	30	mA
Repetitive Peak Forward Current	$I_{FRM}$	150	mA
Peak Forward Surge Current, $t_p = 1s$	$I_{FSM}$	500	mA
Maximum Forward Voltage $I_F = 0.1mA$ $I_F = 1mA$ $I_F = 15mA$	$V_F$	0.33 0.41 1.0	V
Maximum Reverse Current $V_R = 40V$	$I_R$	0.2	$\mu A$
Diode Capacitance $V_R = 1V, f = 1MHz$	$C_D$	1.6	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

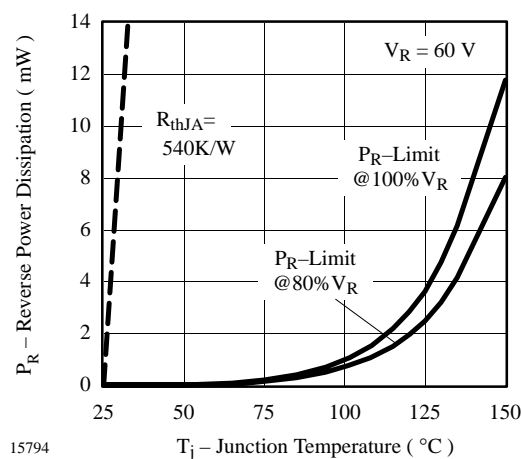


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

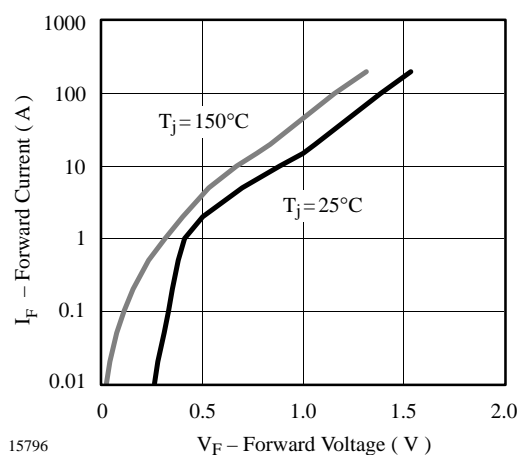


Figure 3. Forward Current vs. Forward Voltage

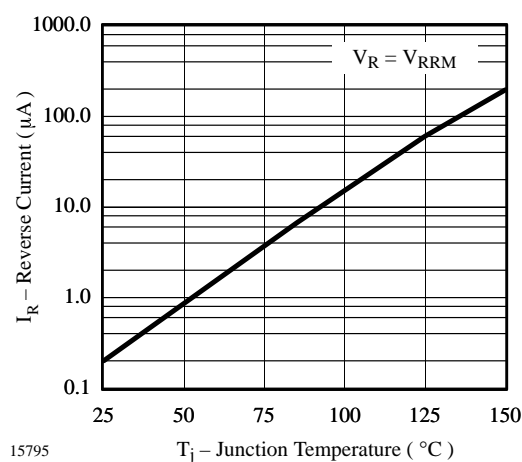


Figure 2. Reverse Current vs. Junction Temperature

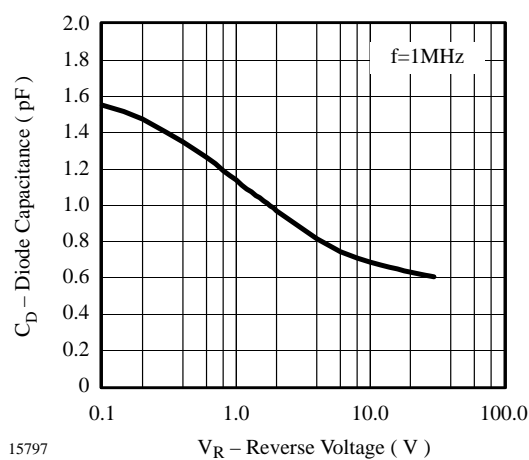


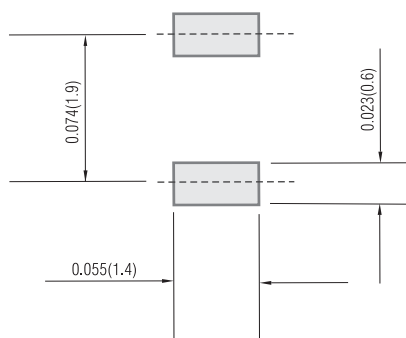
Figure 4. Diode Capacitance vs. Reverse Voltage

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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

BAS381\_R1\_10001

BAS381\_R2\_10001

For example :

**RB500V-40** **R2** **00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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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