

BAS381

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

VOLTAGE 40 Volts **CURRENT** 0.15 Amperes

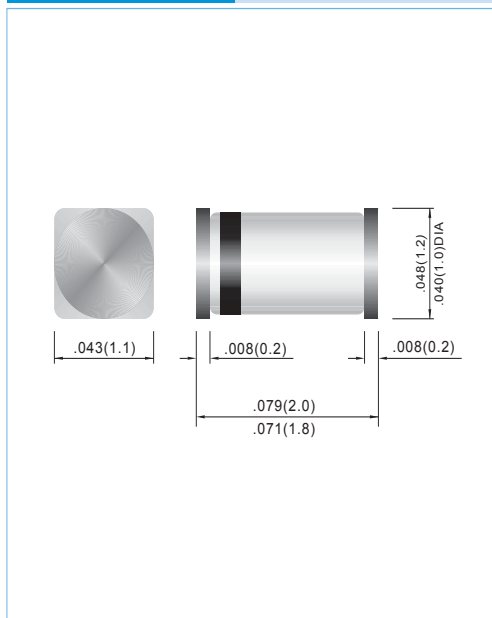
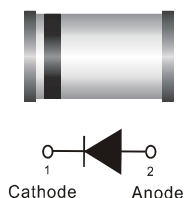
MICRO-MELF Unit : inch (mm)

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A = 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	μA
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

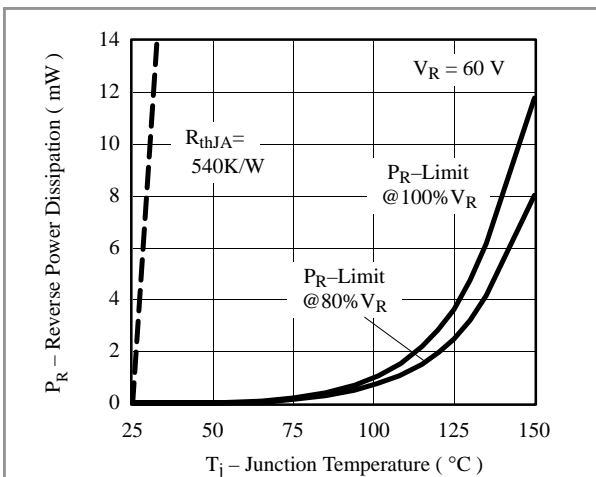


Fig. 1 Max. Reverse Power Dissipation vs. Junction Temperature

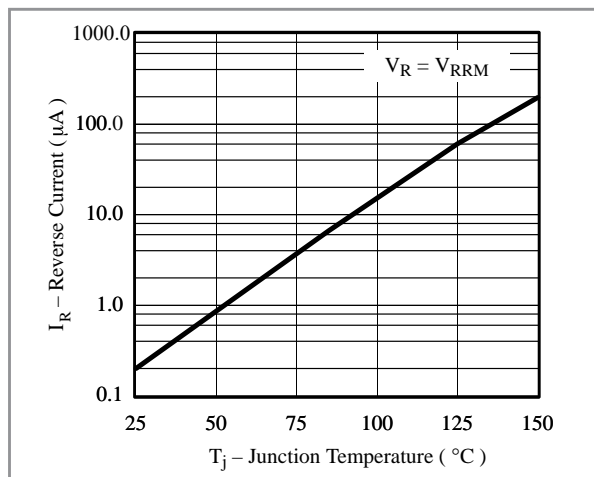


Fig. 2 Reverse Current vs. Junction Temperature

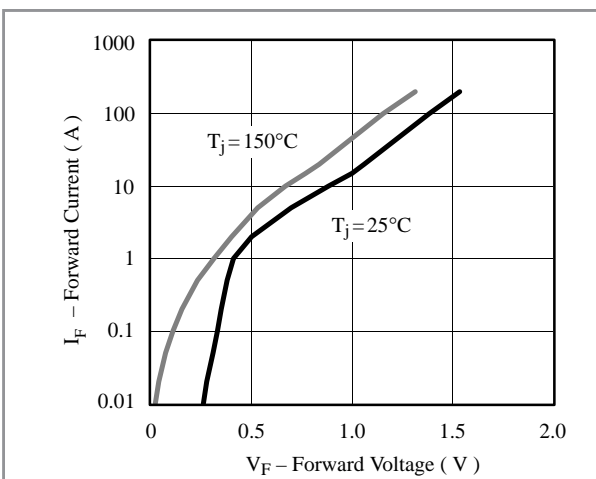


Fig. 3 Forward Current vs. Forward Voltage

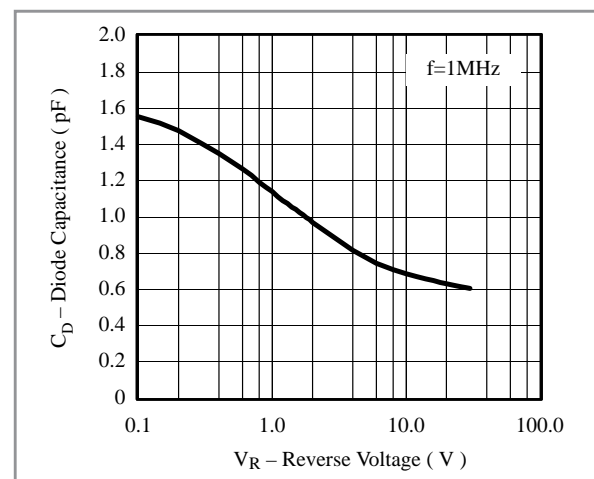


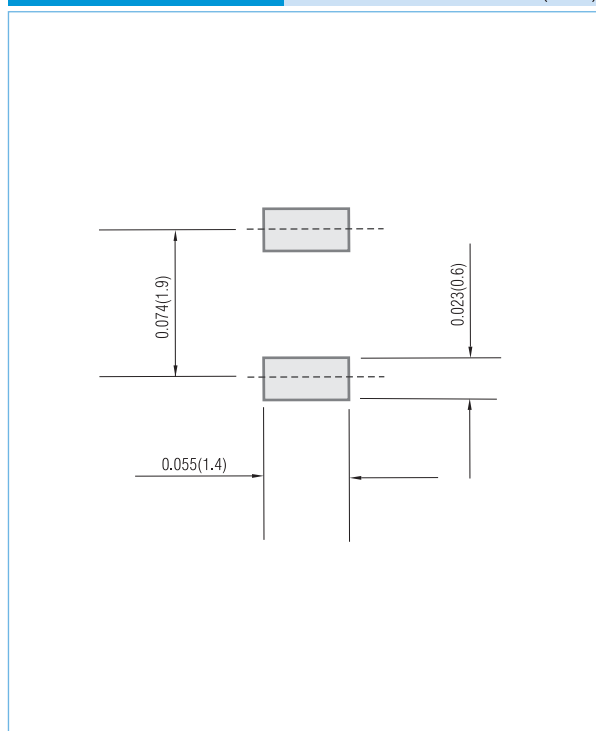
Fig. 4 Diode Capacitance vs. Reverse Voltage

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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

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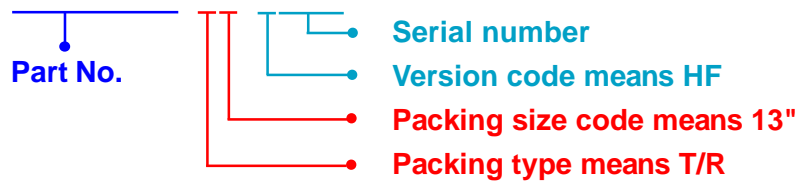
Part No_packing code_Version

BAS381_R1_10001

BAS381_R2_10001

For example :

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



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)	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			

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