

BAS116

SWITCHING DIODE

VOLTAGE	75 Volt	POWER	225 mW
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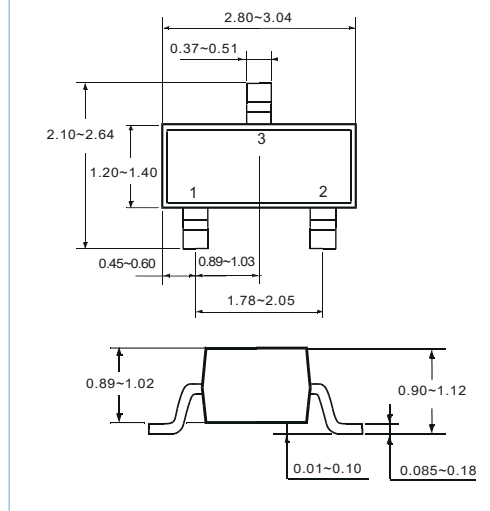
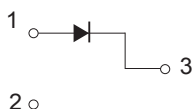
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: JV

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



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

Parameter	Symbol	Value	Units
Peak Repetitive Peak Reverse Voltage	V _{RRM}	75	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _{FM}	200	mA
Non-repetitive Peak Forward surge current @t=8.3ms	I _{FSM}	2.0	
Power dissipation	P _D	225	
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

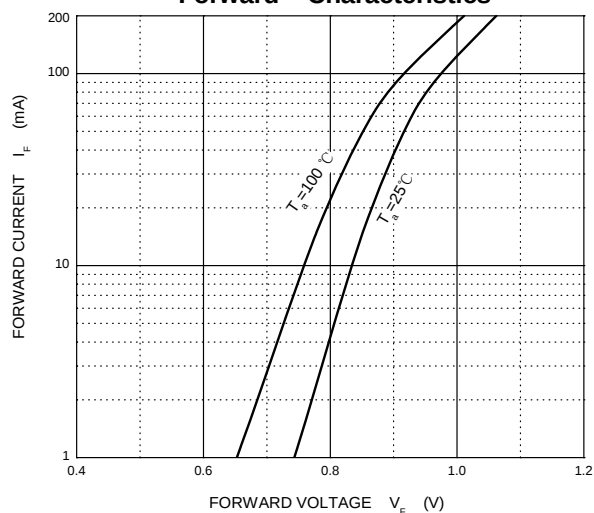
ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	(I _R = 100uA)	75			V
Reverse Leakage	I _R	(V _R = 75 V)			5	nA
Forward Voltage	V _F	(I _F = 1.0 mA) (I _F = 10 mA) (I _F = 50 mA) (I _F = 150 mA)			0.90 1.00 1.10 1.25	V
Total Capacitance	C _T	(V _R = 0 V, f = 1.0 MHz)		2.0		pF
Reverse Recovery Time	t _{rr}	I _F =10mA, I _R =10mA, I _{rr} =0.1xI _R , R _L =100 Ω			3.0	us

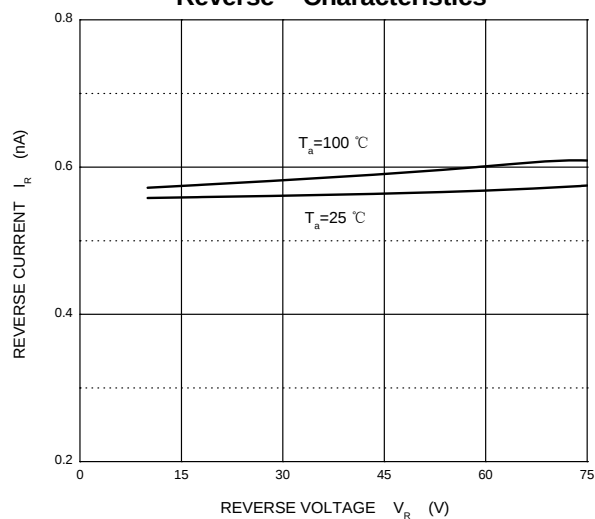
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Typical Characteristics

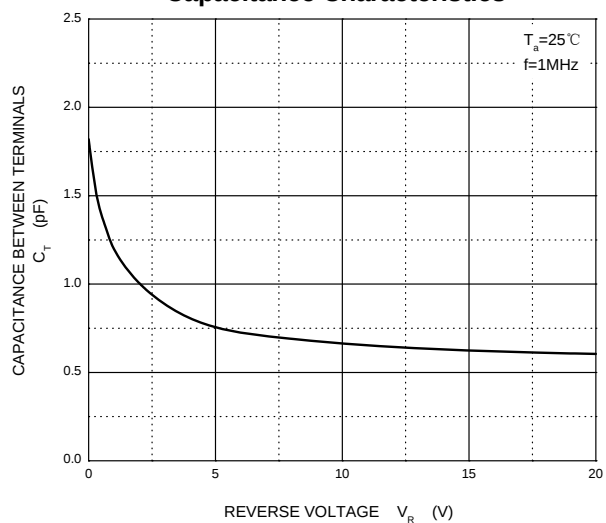
Forward Characteristics



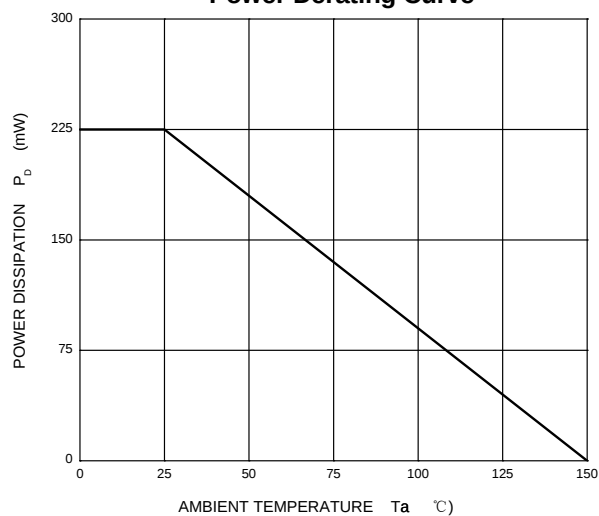
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

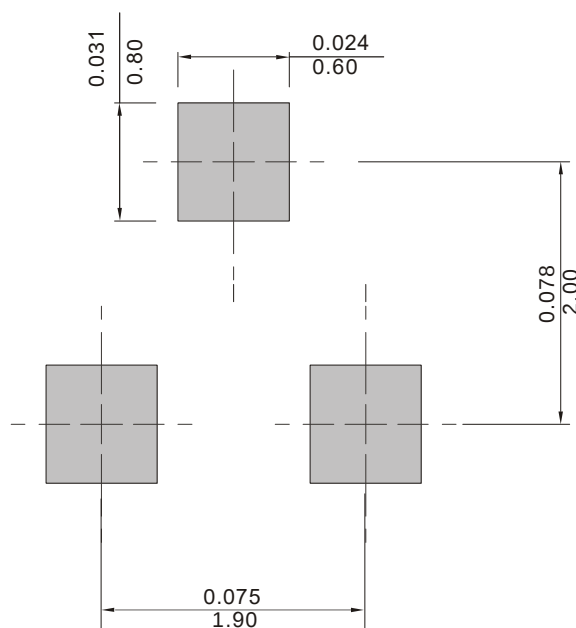


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAS116	SOT-23	7 Inch	3000