



SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODE

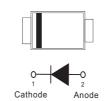
VOLTAGE 100 Volt POWER 200mWatt SOD-

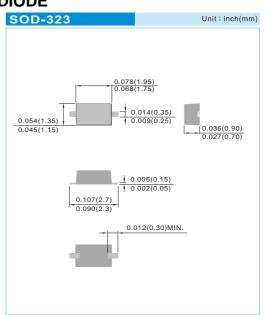
FEATURES

- Suface mount package ideally suited for automatic insertion.
- Very low leakage current. 2nA typical at VR=75V.
- Low capacitance. 2pF max at VR=0V, f=1MHz
- Acquire quality system certificate : TS16949
- · AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : SOD-323 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.00014 ounces, 0.0041 grams
- Marking: PA





ABSOLUTE RATINGS (each diode)

Parameter	Symbol	Value	Units	
Reverse Voltage	VR	75	V	
Peak Reverse Voltage	VRM	100	V	
Continuous Forward Current	l F	0.2	А	
Non-repetitive Peak Forward Surge Current at t=1μs	I FSM	4	А	

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	Ртот	200	m W
Thermal Resistance, Junction to Ambient (Note 1)	RθJA	625	°C/W
Junction Temperature	Тл	-55 to 150	°C
Storage Temperature	Тѕтс	-55 to 150	°C

NOTE:

1. FR-5 Board = 1 x 0.75 x 0.062 in.





ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V(BR)	IR=100μA	75	-	-	V
Reverse Current	l R	VR=75V VR=75V,TJ=150°C		2 8	5 80	nA
Forward Voltage	VF	IF=1mA IF=10mA IF=50mA IF=150mA	- - - -	- - - -	0.9 1 1.1 1.25	V
Total Capacitance	Ст	VR=0V, f=1MHz	-	-	2	pF
Reverse Recovery Time	Trr	IF=IR=10mA, RL=100Ω	-	-	3	μs

CHARACTERISTIC CURVES (each diode)

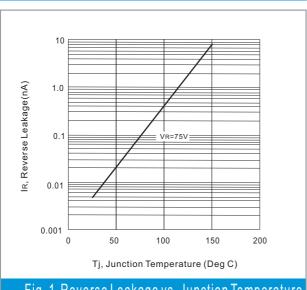


Fig. 1-Reverse Leakage vs. Junction Temperature

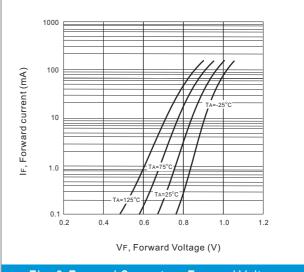


Fig. 2-Forward Current vs. Forward Voltage

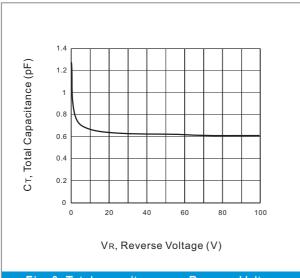
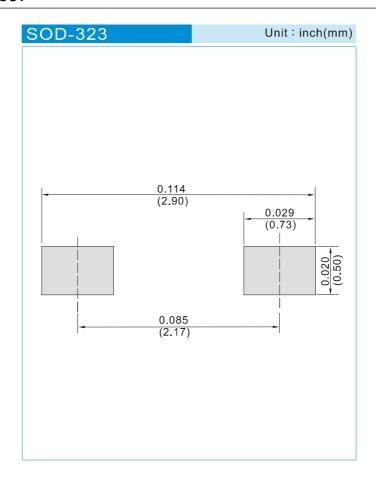


Fig. 3- Total capacitance vs. Reverse Voltage





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

BAS116WS-AU_R1_000A1 BAS116WS-AU_R2_000A1

For example:



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)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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