



SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODES

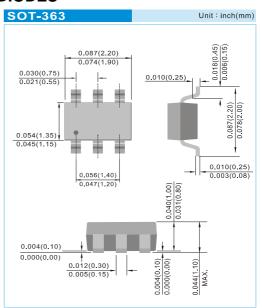
VOLTAGE 100 Volt POWER 200mWatt SOT-

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
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-363 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0002 ounces, 0.006 grams
- Marking: BAS116TW :PA
 BAV199S :PB



ABSOLUTE RATINGS (each diode)

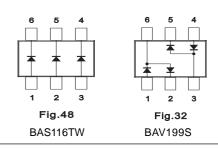
PARAMETER	Symbol	Value	Units
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRM	100	V
Continuous Forward Current	l F	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0us	I FSM	2.0	А

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-4 Board = 70 x 60 x 1mm.





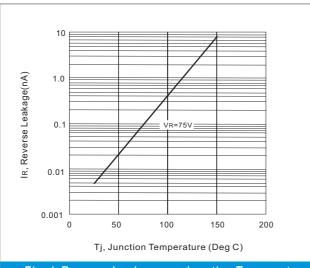


BAS116TW/BAW156DW/BAV170DW/BAV199S

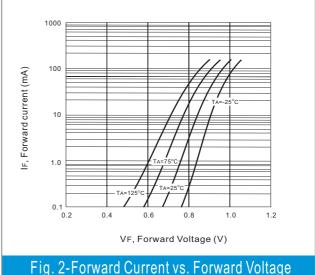
ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	IR=100 uA	75			V
Reverse Current	l R	V _R =75 V V _R =75 V,T _J =150 °C		0.002	5 80	nA
Forward Voltage	VF	IF=1mA IF=10mA IF=50mA IF=150mA			0.9 1.0 1.1 1.25	V
Total Capacitance	Ст	V _R =0 V, f=1MHz			2.0	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, R _L =100Ω			3.0	us

CHARACTERISTIC CURVES (each diode)







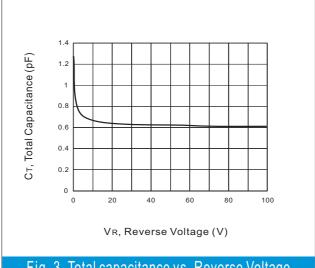
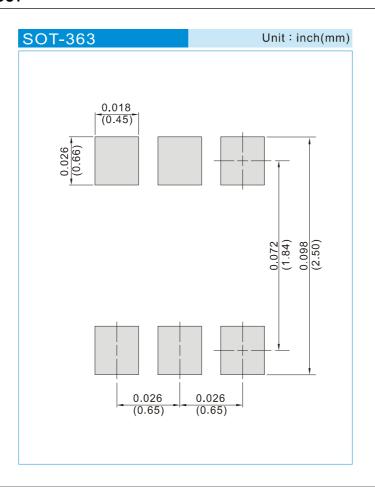


Fig. 3- Total capacitance vs. Reverse Voltage





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAS116TW_R1_00001 BAS116TW_R2_00001

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	Х			
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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