

BAS16TW, BAW56DW, BAV70DW, BAV99S Surface Mount Switching Diodes

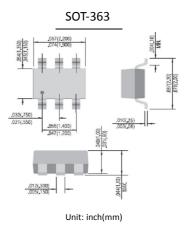
Voltage 100 Volts Power 200 mWatts

FEATURES

- · Fast switching speed.
- · Surface mount package ideally suited for automatic insertion
- · In compliance with EU RoHS 2002/95/EC directives
- High conductance

MECHANICAL DATA

- · Case: SOT-363 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. weight: 0.006 grams
- Marking: A6, A8, A80, A82



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

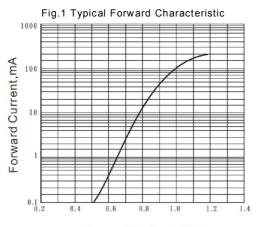
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	BAS16TW	BAW56DW	BAV70DW	BAV99S	UNITS
Marking Code	-	16T	JC	JA	JB	-
Reverse Voltage	V _R	75				V
Peak Reverse Voltage	V	100				V
Rectified Current (Average),Half Wave Rectification With Resistive Load and f≥50Hz	I _o	150				mA
Peak Forward Surge Current, 0.001ms	l FSM	4.0				А
Power Dissipation Derate Above 25°C	P _{TOT}	200				mW
Maximum Forward Voltage	V _F	0.715@I _F =0.001A 0.855@I _F =0.01A 1.0@I _F =0.05A 1.25@I _F =0.15A				v
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5				μA
Maximum Junction Capacitance (Note 1)	C」	1.5				pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	4.0				ns
Typical Thermal Resistance	R _{eja}	625				°C / W
Junction Temperature Range	TJ	-55 to +150				°C
Circuit Figure		Fig.48	Fig.51	Fig.52	Fig.32	

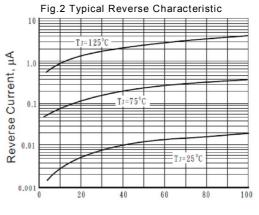
NOTE : 1. Reverse Bias Voltage = 0. f=1MHz

2. From IF=10mA to IR=-1mA. VR=6V. RL=100 Ω

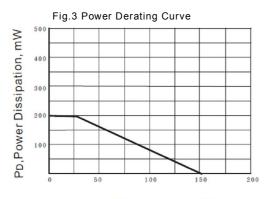
Characteristic and Rating Curve



Forward Voltage, Volts



Reverse Voltage, Volts



Ambient Temperature (°C)

