



BAS16TW/BAW56DW/BAV70DW/BAV99S

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts POWER 200mWatts

FEATURES

- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- · High Conductance

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MECHANICAL DATA

· Case: SOT-363, Plastic

• Terminals: Solderable per MIL-STD-750, Method 2026

• Weight: approximately 0.006 grams

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 _{RM}	100			V	
Rectified Current (Average),Half Wave Rectification With Resistive Load and f≥50Hz	I _o	150				mA
Peak Forward Surge Current, 1.0μs	I _{FSM}	4.0				A
Power Dissipation Derate Above 25°C	P _{тот}	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				μА
Maximum Junction Capacitance (Note 1)	C _J	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	T _J	-55 to +150				°C
Circuit Figure		Fig.48	Fig.51	Fig.52	Fig.32	

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

2. I F=10mA to I R=1mA. VR=6V. Load=100 Ω

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