

BAS16TW/BAW56DW/BAV70DW/BAV99S

SURFACE MOUNT SWITCHING DIODES

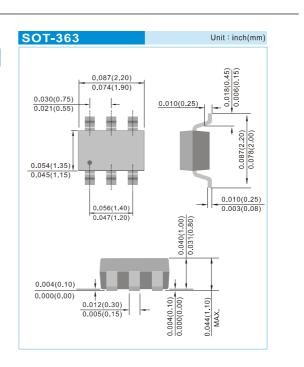
VOLTAGE 100 Volt POWER

FEATURES

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

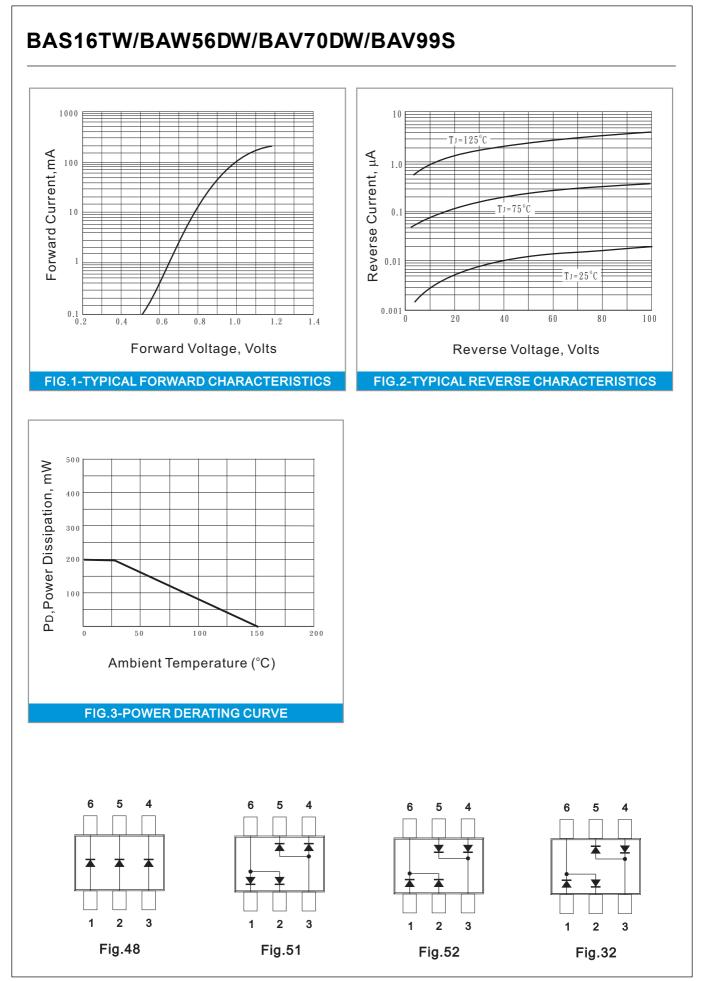
200mWatt

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 \geq 50Hz	I o	150				mA
Peak Forward Surge Current, 1µs	I _{FSM}	4				A
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@I _F =0.05A 1.25@I _F =0.15A				v
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5				μΑ
Maximum Junction Capacitance (Note 1)	C	1.5				pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	4				ns
Typical Thermal Resistance	R _{eja}	625				°C / W
Operating Junction and Storage Temperature Range	T_{J},T_{STG}	-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=100Ω

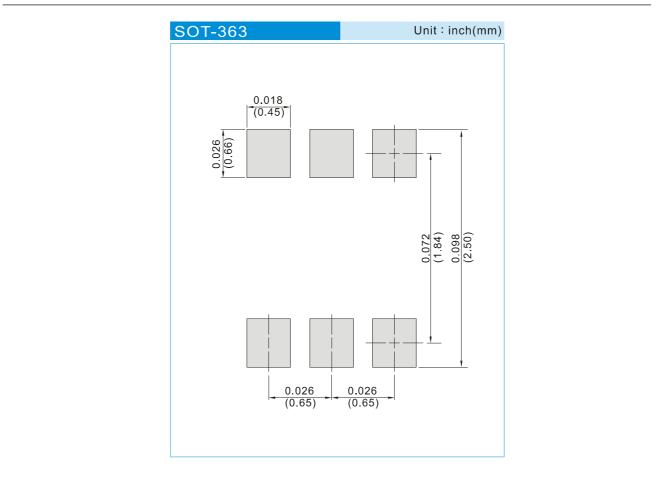






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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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