



#### SURFACE MOUNT SWITCHING DIODES

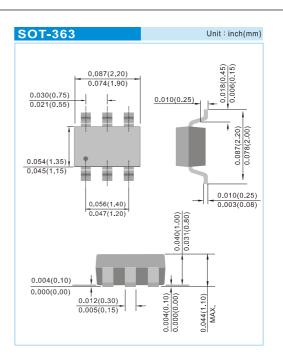
VOLTAGE 100 Volt POWER 200mWatt

#### **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%.

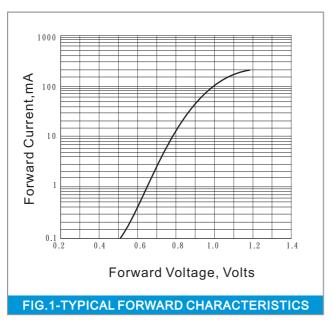
PARAMETER	SYMBOL	BAS16TW	BAW56DW	BAV70DW	BAV99S	UNITS
Marking Code	-	16T	JC	JA	JB	-
Reverse Voltage	V <sub>R</sub>		V			
Peak Reverse Voltage	V <sub>RM</sub>		٧			
Rectified Current (Average),Half Wave Rectification With Resistive Load and f≥50Hz	I <sub>o</sub>		mA			
Peak Forward Surge Current, 1μs	I <sub>FSM</sub>		А			
Power Dissipation Derate Above 25°C	P <sub>тот</sub>		mW			
Maximum Forward Voltage	V <sub>F</sub>		V			
Maximum DC Reverse Current at 25V 75V	I <sub>R</sub>		μΑ			
Maximum Junction Capacitance (Note 1)	C <sub>J</sub>		pF			
Maximum Reverse Recovery Time (Note 2)	T <sub>RR</sub>		ns			
Typical Thermal Resistance	R <sub>eJA</sub>		°C / W			
Operating Junction and Storage Temperature Range	$T_{J,T_{STG}}$		°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 $\Omega$ 







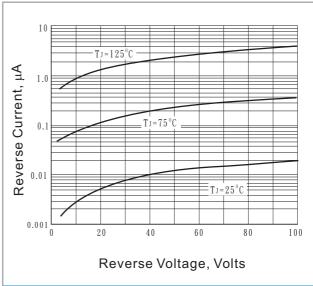
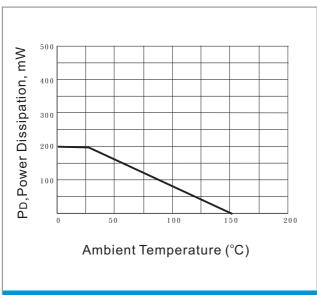


FIG.2-TYPICAL REVERSE CHARACTERISTICS



### FIG.3-POWER DERATING CURVE

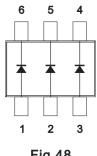


Fig.48

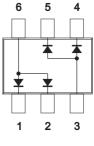


Fig.51

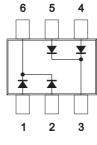


Fig.52

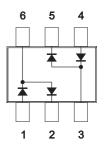
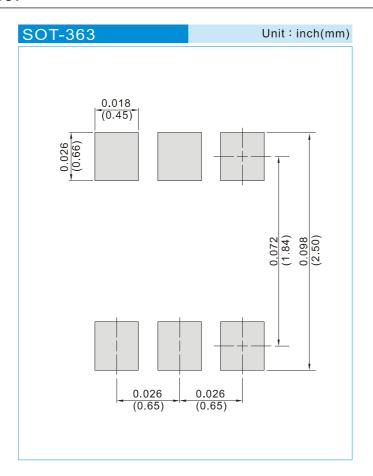


Fig.32





### **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

BAS16TW\_R1\_00001 BAS16TW\_R2\_00001 BAS16TW\_S1\_00001

### For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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BAW56DW\_R1\_00001 BAW56DW\_R1\_10001 BAW56DW\_R2\_00001 BAW56DW\_R2\_10001