



#### SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volts POWER 200mWatts

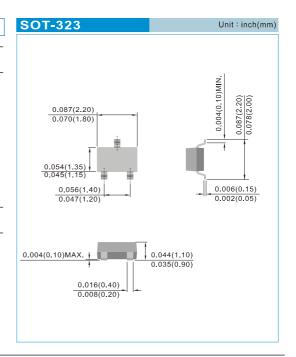
#### **FEATURES**

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- · Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026 Approx. Weight: 0.0002 Ounces, 0.005 Grams

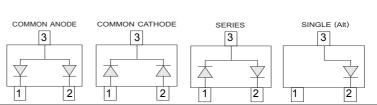


#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAW56W	BAV70W	BAV99W	BAL99W	UNITS
Marking Code		JC	JA	JB	JF	
Reverse Voltage	Vr		٧			
Peak Reverse Voltage	Vrm		٧			
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo		mA			
Peak Forward Surge Current,0.001ms	IFSM		А			
Power Dissipation Derate Above 25°C	Ртот		mW			
Maximum Forward Voltage	VF		V			
Maximum DC Reverse Current at 25V 75V	Ir		μΑ			
Maximum Junction Capacitance( Notes 1)	Сì		pF			
Maximum Reverse Recovery Time (Notes 2)	Trr		ns			
Typical Thermal Resistance, Junction to Ambient(Notes 3) Junction to Case (Notes 4)	R <sub>eJA</sub> R <sub>eJC</sub>		°C / W			
Junction Temperature Range	TJ		°C			
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

#### NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$
- 3. Mountde on minimum pad.
- 4. Mounted on 48 cm<sup>2</sup> PCB.



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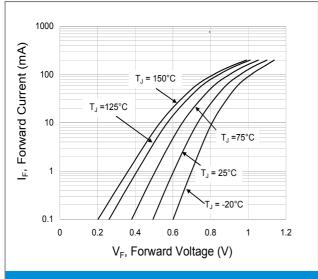


Fig. 1 Typical Forward Characteristics

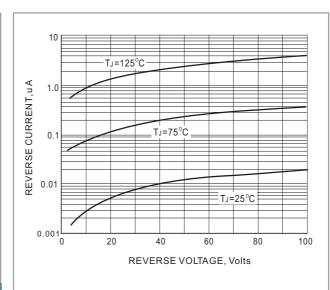
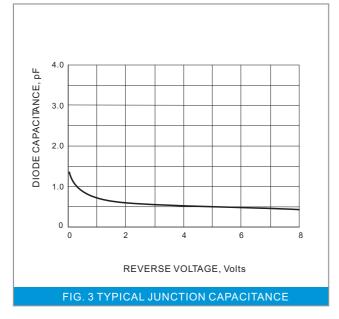


FIG. 2-TYPICAL REVERSE CHARACTERISTICS



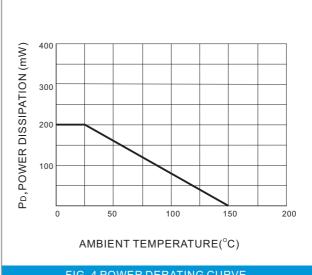


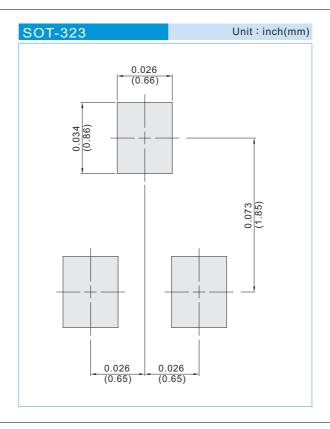
FIG. 4 POWER DERATING CURVE

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#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





### Part No\_packing code\_Version

BAW56W\_R1\_00001 BAW56W\_R2\_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	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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