

### SURFACE MOUNT SWITCHING DIODES

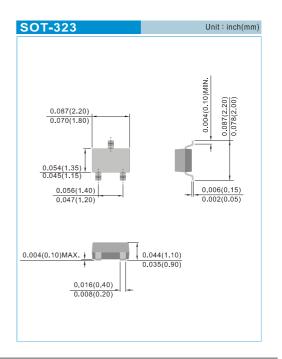
VOLTAGE 100Volt POWER 200mWatt

### **FEATURES**

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard
- · AEC-Q101 qualified

#### **MECHANICAL DATA**

- · Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0002 ounces, 0.005 grams

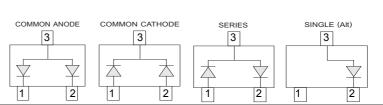


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAW56W-AU	BAV70W-AU	BAV99W-AU	BAL99W-AU	UNITS
Marking Code		JC	JA	JB	JF	
Reverse Voltage	Vr	75				٧
Peak Reverse Voltage	Vrm	100				٧
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo	150				mA
Peak Forward Surge Current,0.001ms	IFSM	4.0				Α
Power Dissipation Derate Above 25°C	Ртот	200				mW
Maximum Forward Voltage	VF	0.715 @ IF=0.001A 0.855 @ IF=0.01A 1.0 @ IF=0.05A 1.25 @ IF=0.15A				V
Maximum DC Reverse Current at 25V 75V	IR	0.03 2.5				μΑ
Maximum Junction Capacitance( Notes 1)	Сì	1.5				pF
Maximum Reverse Recovery Time (Notes 2)	Trr	4.0				ns
Typical Thermal Resistance, Junction to Ambient(Notes 3) Junction to Case (Notes 4)	R <sub>eJA</sub> R <sub>eJC</sub>	625 250				°C / W
Junction Temperature Range	TJ	-55 to +150				°C
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

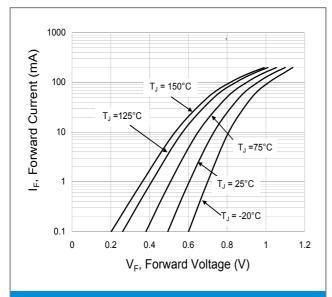
### NOTE:

- 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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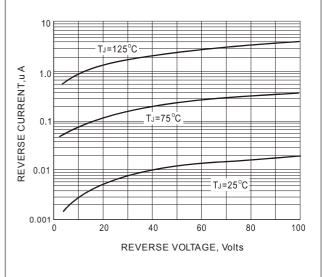
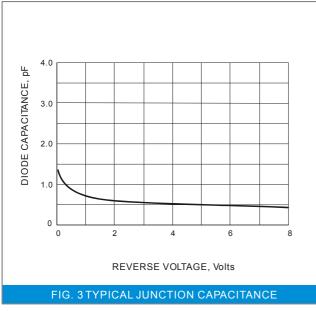


FIG. 1-TYPICAL FORWARD CHARACTERISTIC





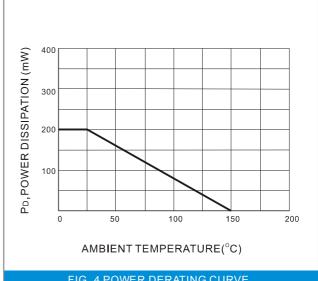
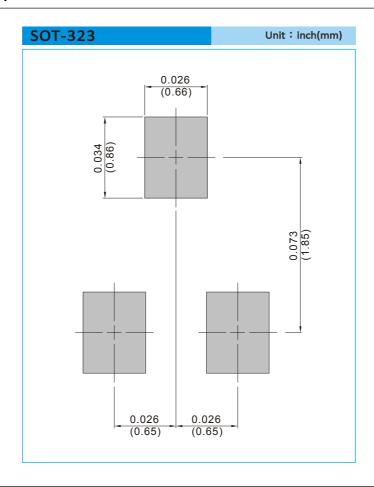


FIG. 4 POWER DERATING CURVE



### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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