



### **SURFACE MOUNT SWITCHING DIODES**

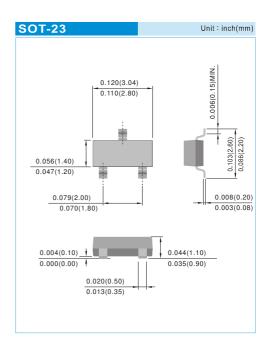
VOLTAGE 100 Volt POWER 250mWatt

#### **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

### **MECHANICAL DATA**

- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0003 ounces, 0.0084 grams



### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

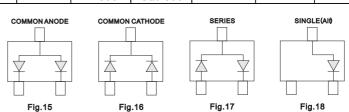
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56	BAV70	BAV99	BAL99	UNITS
Marking Code	-	JC	JA	JB	JF	-
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 ≥50 Hz	I <sub>o</sub>		m A			
Peak Forward Surge Current,0.001ms	I <sub>FSM</sub>		Α			
Power Dissipation Derate Above 25°C	P <sub>тот</sub>		m W			
Maximum Forward Voltage	V <sub>F</sub>		V			
Maximum DC Reverse Current at 25V 75V	I <sub>R</sub>		μΑ			
Maximum Junction Capacitance (Notes 1)	C¹		pF			
Maximum Reverse Recovery Time (Notes 2)	t <sub>rr</sub>		ns			
Typical Thermal Resistance	R <sub>⊕JA</sub> R <sub>⊕JC</sub>		°C / W			
Junction Temperature Range	T <sub>J</sub>		°C			
Circuit Figure	-	Common Anode	Common Cathode	Series	Single(Alt)	-

#### NOTE:

1. CJ at VR=0, f=1MHz

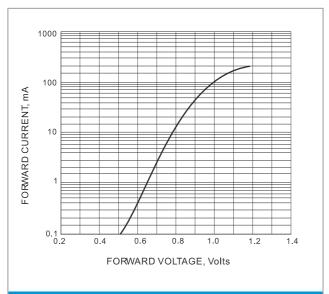
2.From I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=100 $\Omega$ 

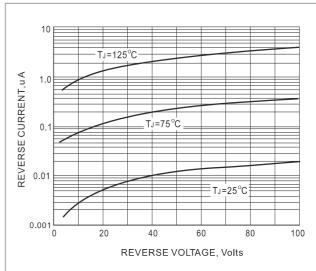


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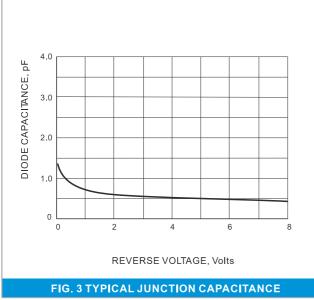


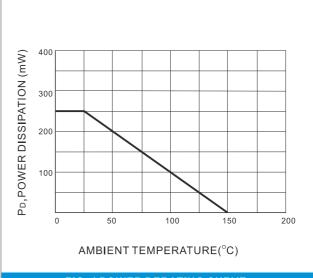




### FIG. 1-TYPICAL FORWARD CHARACTERISTIC







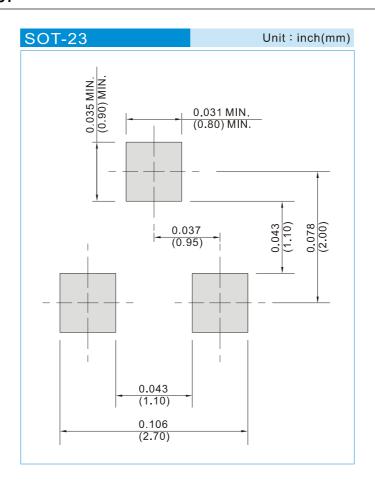
3 TYPICAL JUNCTION CAPACITANCE FIG. 4 POWER DERATING CURVE

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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

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## Part No\_packing code\_Version

BAW56\_R1\_00001 BAW56\_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	1st 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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