



SURFACE MOUNT SWITCHING DIODES

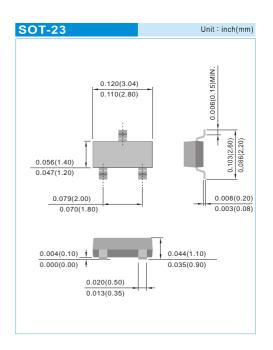
VOLTAGE 100 Volt POWER 250mWatt

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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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



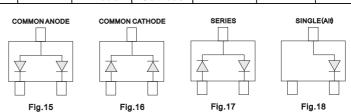
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 _R	75					
Peak Reverse Voltage	V _{RM}	100					
Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥50 Hz	I o	150					
Peak Forward Surge Current,0.001ms	I _{FSM}	4.0					
Power Dissipation Derate Above 25°C	Ртот	250					
Maximum Forward Voltage	V _F	0.715 @ I F=1mA 0.855 @ I F=10mA 1.0 @ I F=50mA 1.25 @ I F=150mA					
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5					
Maximum Junction Capacitance (Notes 1)	C	1.5					
Maximum Reverse Recovery Time (Notes 2)	t _{rr}	4.0					
Typical Thermal Resistance	R _{θJA} R _{θJC}	360 205					
Junction Temperature Range	T _J	-55 to +150					
Circuit Figure	-	Common Anode	Common Cathode	Series	Single(Alt)	-	

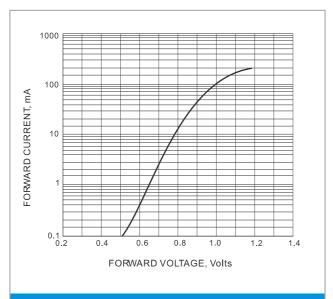
NOTE:

- 1. CJ at VR=0, f=1MHz
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω









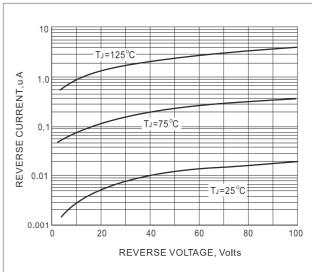
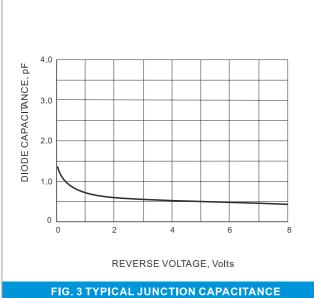
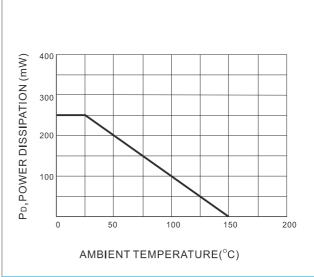


FIG. 1-TYPICAL FORWARD CHARACTERISTIC





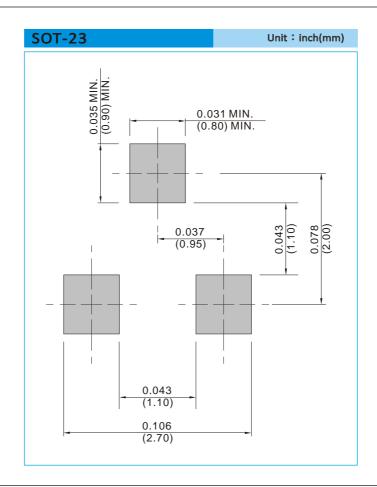


IG. 3 TYPICAL JUNCTION CAPACITANCE FIG. 4 POWER DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAW56_R1_00001 BAW56_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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				





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.