



SURFACE MOUNT SWITCHING DIODES

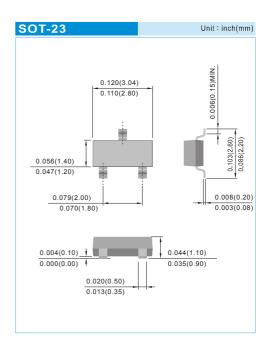
VOLTAGE 100 Volt POWER 250mWatt

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



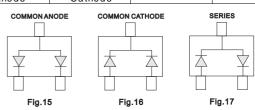
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAW56	BAV70	BAV99	UNITS
Marking Code	-	JC	JA	JB	-
Reverse Voltage	V _R	75			V
Peak Reverse Voltage	V _{RM}		V		
Rectified Current (Average), Half Wave Rectification with Resistive Load and f <u>></u> 50 Hz	I o		m A		
Peak Forward Surge Current, 0.001ms	I _{FSM}		Α		
Power Dissipation Derate Above 25°C	Ртот		mW		
Maximum Forward Voltage	V _F	1	V		
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5			μА
Junction Capacitance (Notes 1)	CJ	1.5			pF
Maximum Reverse Recovery Time (Notes 2)	t _{rr}		ns		
Typical Thermal Resistance (Notes 3) (Notes 4)	R R _{ejc}	450 257			°C / W
Junction Temperature Range	T		°C		
Circuit Figure	-	Common Anode	Common Cathode	Series	-

Notes:

- 1. CJ at VR=0, f=1MHz
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω
- 3. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 4. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area.







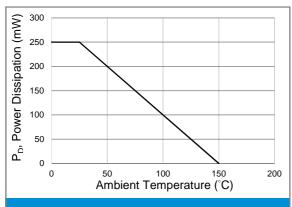


Fig.1 Power Derating Curve

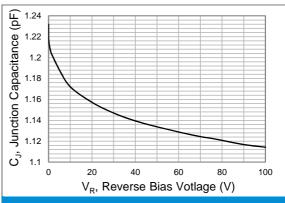


Fig.2 Typical Junction Capacitance

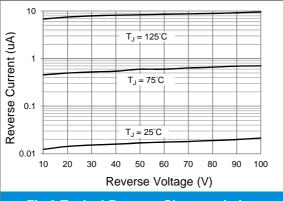


Fig.3 Typical Reverse Characteristics

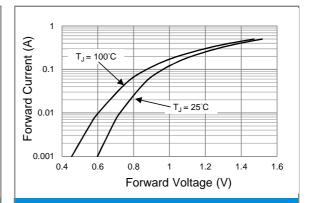
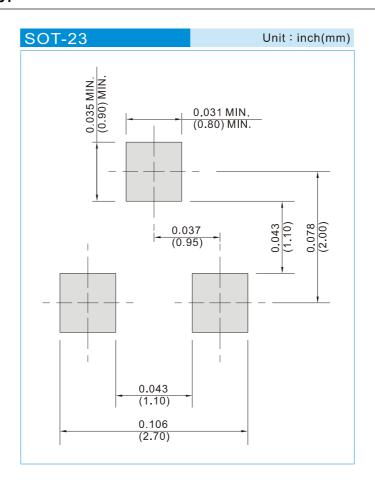


Fig.4 Typical Forward Characteristics





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_00101 BAW56_R2_00101

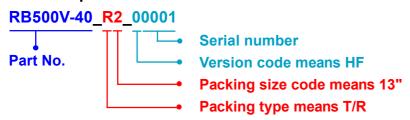
BAV70_R1_00101

BAV70_R2_00101

BAV99_R1_00101

BAV99_R2_00101

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)	Ø	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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