

BAW56W,BAV70W,BAV99W,BAL99W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volt **POWER** 200mWatt

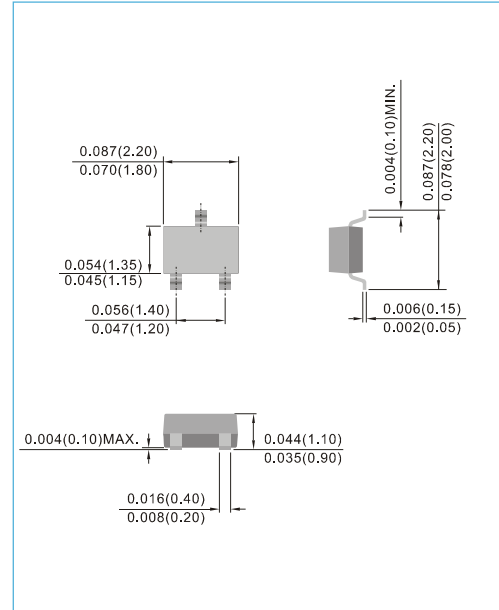
SOT-323 Unit : inch(mm)

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

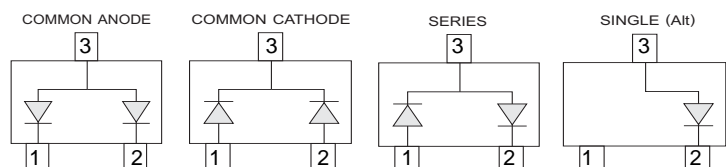


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAW56W	BAV70W	BAV99W	BAL99W	UNITS
Marking Code		JC	JA	JB	JF	
Reverse Voltage	V _R	75				V
Peak Reverse Voltage	V _{RM}	100				V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	I _o	150				mA
Peak Forward Surge Current,0.001ms	I _{FSM}	4.0				A
Power Dissipation Derate Above 25°C	P _{TOT}	200				mW
Maximum Forward Voltage	V _F	0.715 @ I _F =0.001A 0.855 @ I _F =0.01A 1.0 @ I _F =0.05A 1.25 @ I _F =0.15A				V
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5				μA
Maximum Junction Capacitance(Notes 1)	C _J	1.5				pF
Maximum Reverse Recovery Time (Notes 2)	T _{RR}	4.0				ns
Typical Thermal Resistance, Junction to Ambient(Notes 3) Junction to Case (Notes 4)	R _{θJA} R _{θJC}	625 250				°C / W
Junction Temperature Range	T _J	-55 to +150				°C
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω
3. Mounted on minimum pad.
4. Mounted on 48 cm² PCB.



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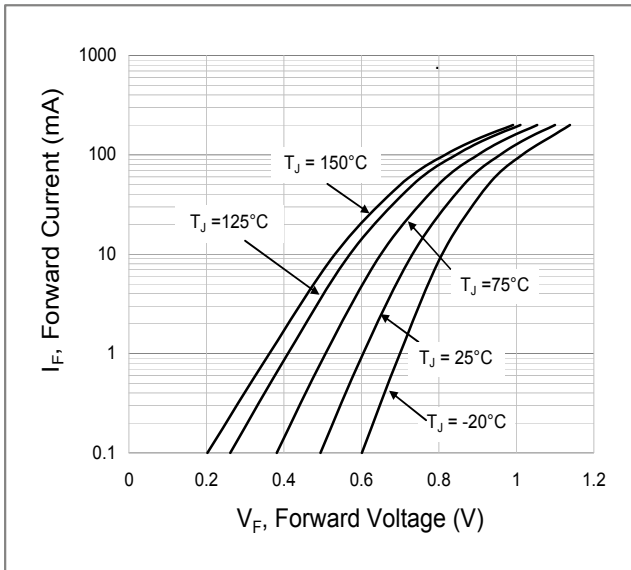


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

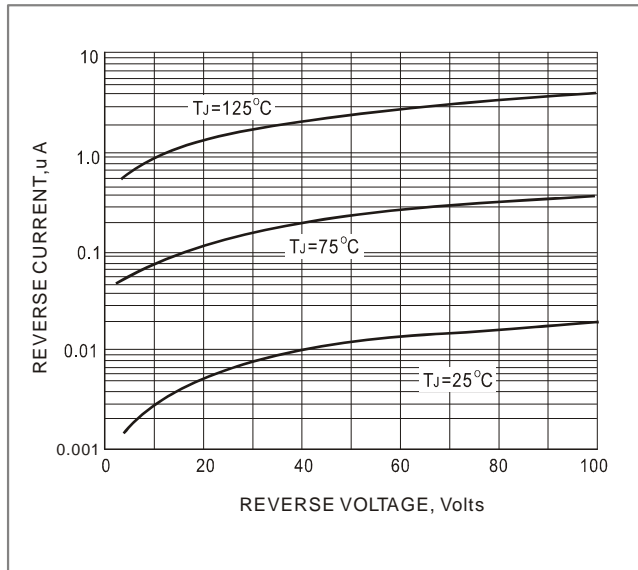


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

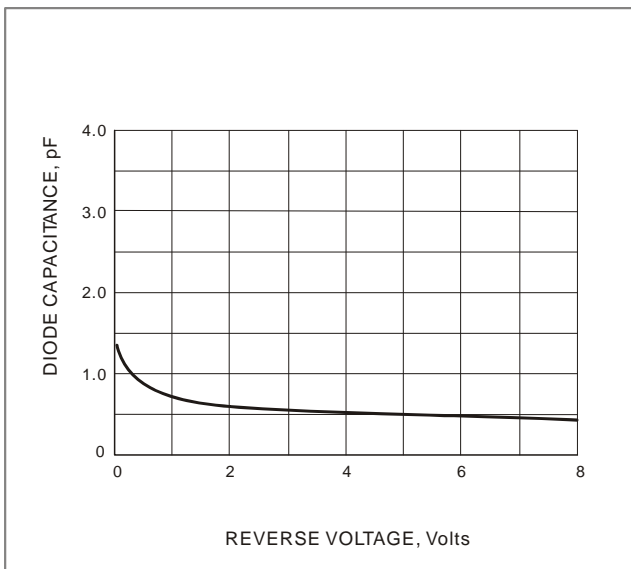


FIG. 3 TYPICAL JUNCTION CAPACITANCE

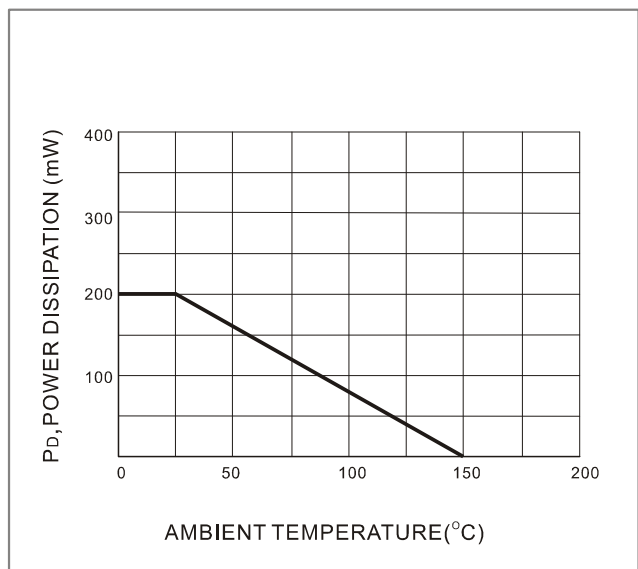


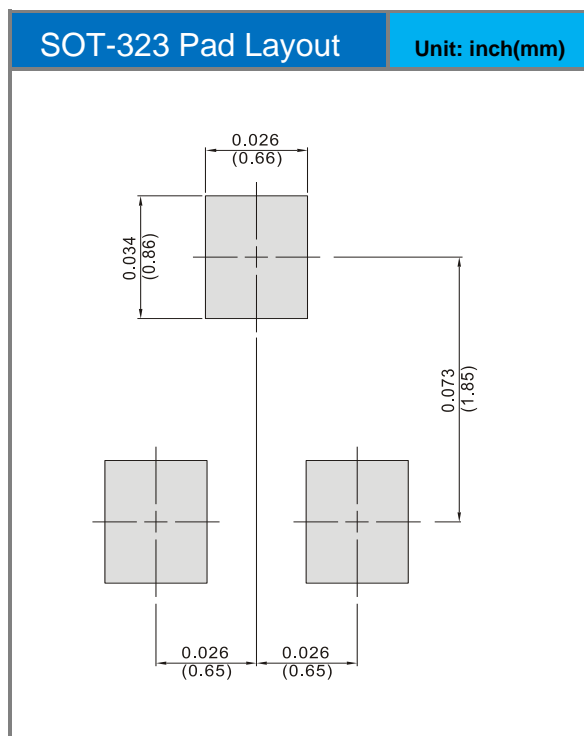
FIG. 4 POWER DERATING CURVE

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAW56W	SOT-323	3K pcs / 7" reel	JC
BAW56W	SOT-323	12K pcs / 13" reel	JC
BAV70W	SOT-323	3K pcs / 7" reel	JA
BAV70W	SOT-323	12K pcs / 13" reel	JA
BAV99W	SOT-323	3K pcs / 7" reel	JB
BAV99W	SOT-323	12K pcs / 13" reel	JB
BAL99W	SOT-323	3K pcs / 7" reel	JF
BAL99W	SOT-323	12K pcs / 13" reel	JF

Mounting Pad Layout



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