



DATA SHEET

BAW56

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75 Volts **POWER** 250mWatts

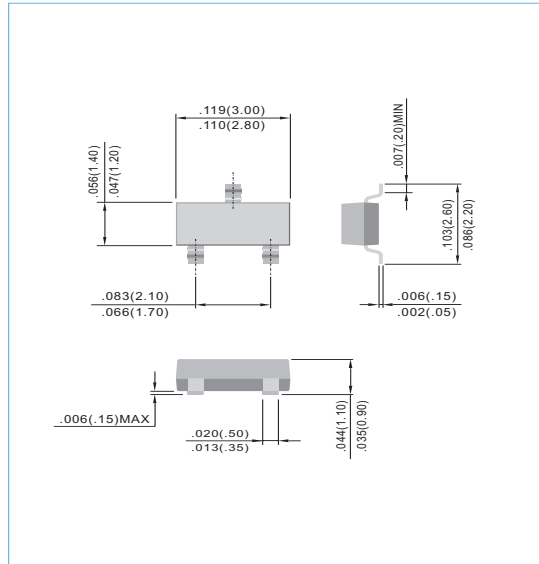
SOT-23 Unit: inch (mm)

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: SOT-23, Plastic
 Terminals: Solderable per MIL-STD-202G, Method 208
 Approx. Weight: 0.008 gram
 Marking Code: JC



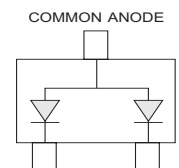
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAW56	UNITS
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	I_o	150	mA
Peak Forward Surge Current, 1.0us	I_{FSM}	2.0	A
Power Dissipation Derate Above 25°C	P_{TOT}	250	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
Maximum Thermal Resistance	$R_{\theta JA}$	625	°C / W
Junction Temperature Range	T_J	-55 TO +150	°C

NOTE:

1. C_J at $V_R=0$, $f=1MHz$
2. From $I_F=10mA$ to $I_R=1mA$, $V_R=6Volts$, $R_L=100\Omega$



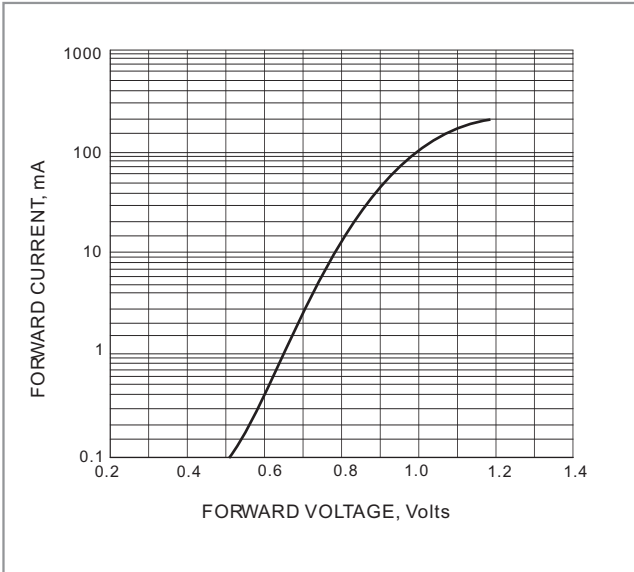


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

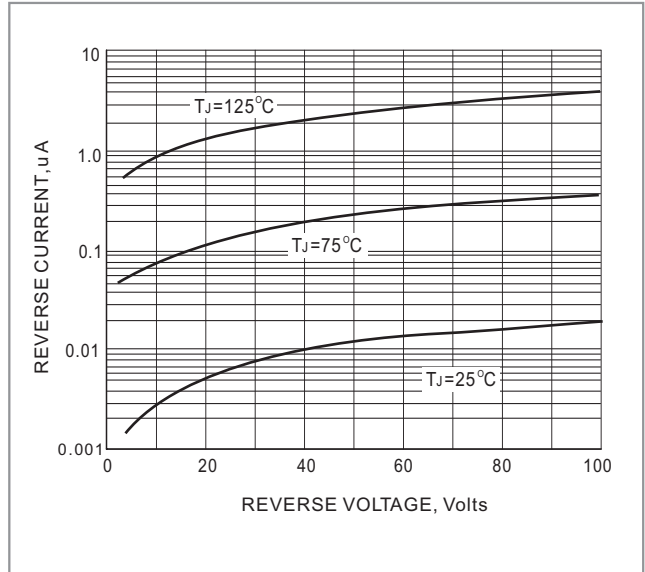


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

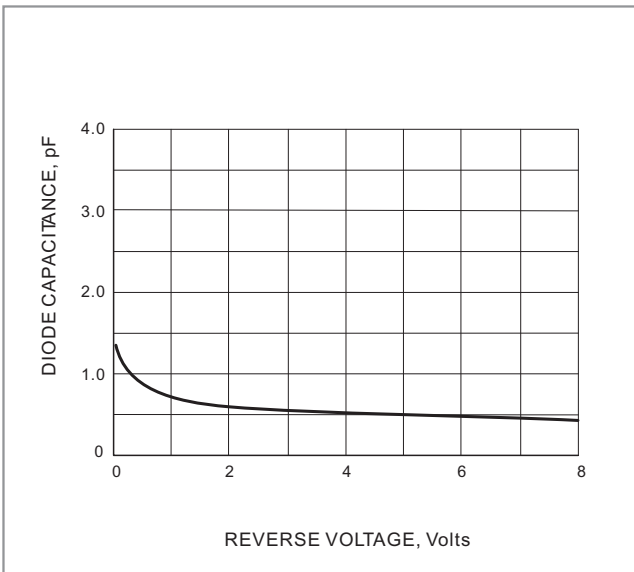


FIG. 3 TYPICAL JUNCTION CAPACITANCE

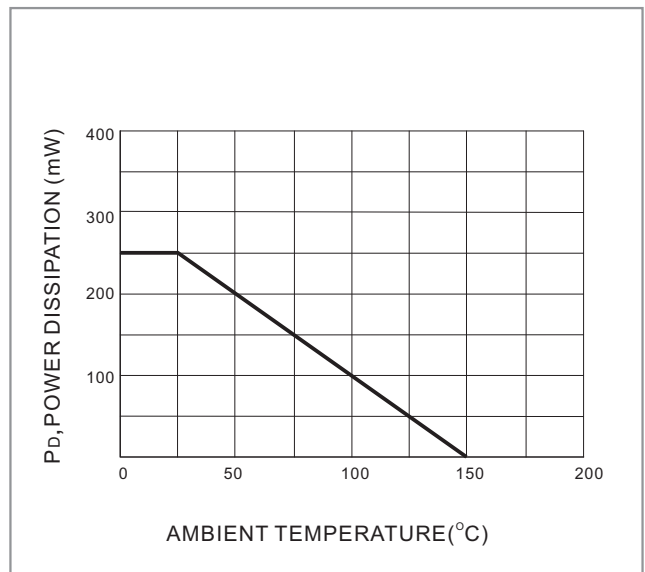


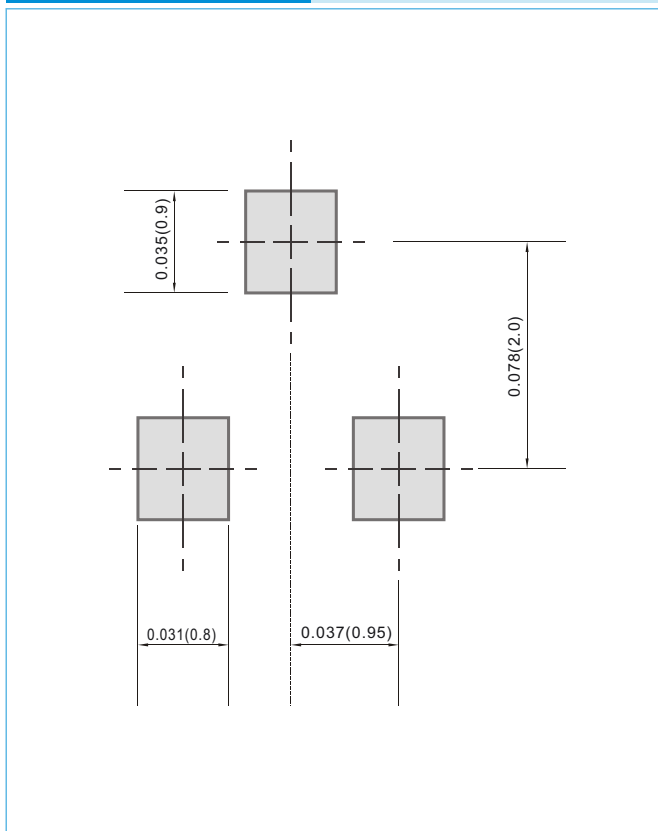
FIG. 4 POWER DERATING CURVE



MOUNTING PAD LAYOUT

SOT-23

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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