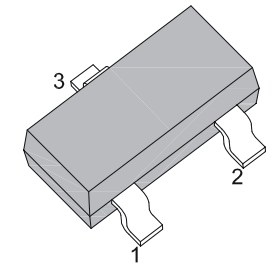
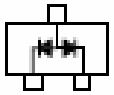
Three Terminals SMD Switching Diode



SOT-23



RoHS Compliant

Features

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- RoHS Compliant

Mechanical Data

Case:	SOT-23, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	Approx. 0.0084 gram

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	BAW56	Unit
	Marking Code	JC	
V_{RM}	Reverse Voltage	75	V
V_{RRM}	Peak Reverse Voltage	100	V
$I_{F(AV)}$	Forward Average Current, Half Wave Rectification with Resistive Load and f≥50Hz	150	mA
I_{FSM}	Peak Forward Surge Current (0.001mS)	4	A
P_D	Power Dissipation Derate above 25° C	250	mW
T_J	Junction Temperature	150	° C
T_{STG}	Storage Temperature Range	-55 to +150	° C

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060
Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	BAW56	Unit	Conditions
V_F	Forward Voltage	0.715	V	I_F=1mA
		0.855		I_F=10mA
		1.0		I_F=50mA
		1.25		I_F=150mA
I_R	Reverse Current	0.03	μA	V_R=25V
		2.5		V_R=75V
C_T	Total Capacitance	1.5	pF	V_R=0V, f=1MHz
T_{rr}	Reverse Recovery Time	4	nS	From I_F=10mA to I_R=1mA, V_R=6V R_L=100Ω
R_{thJA}	Thermal Resistance from Junction to Ambient Air	360	° C/W	

Typical Characteristics Curves

Fig.1- Power Derating Curve

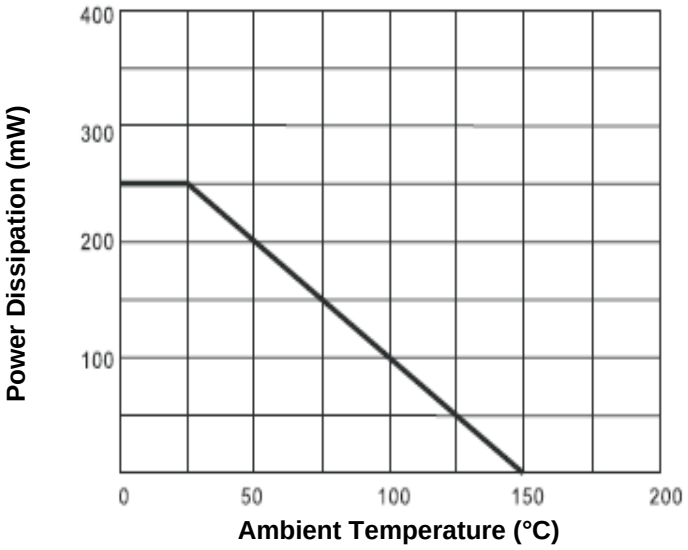


Fig.2- Typical Forward Characteristics

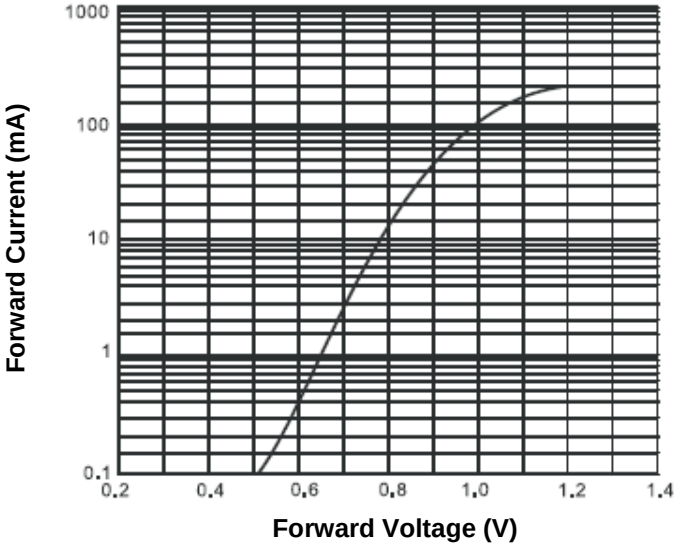


Fig.3- Typical Reverse Characteristics

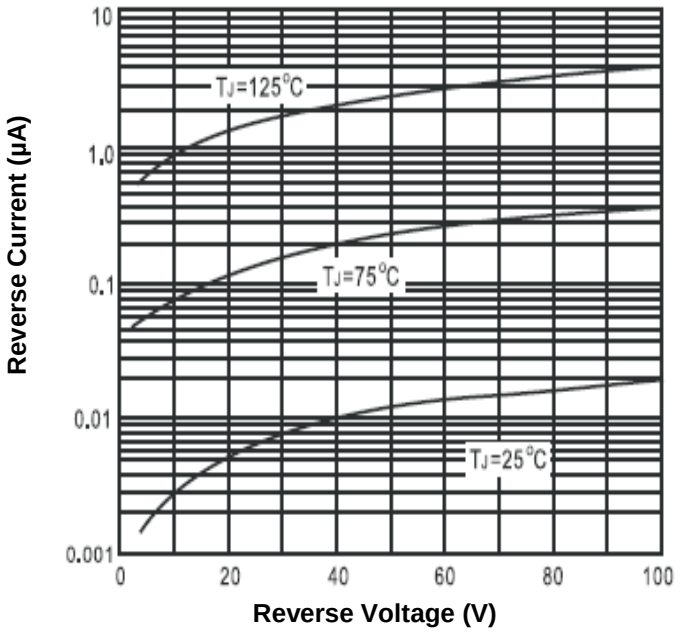
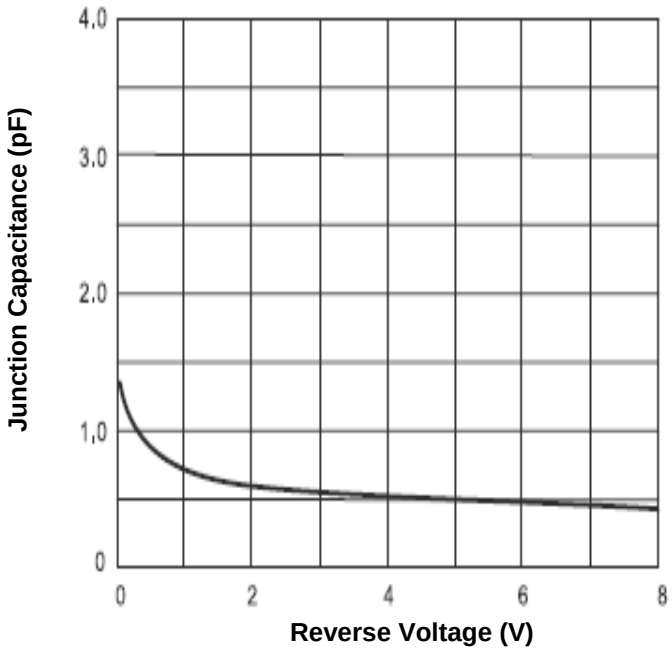
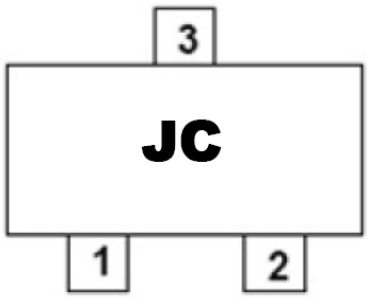


Fig.4- Typical Junction Capacitance

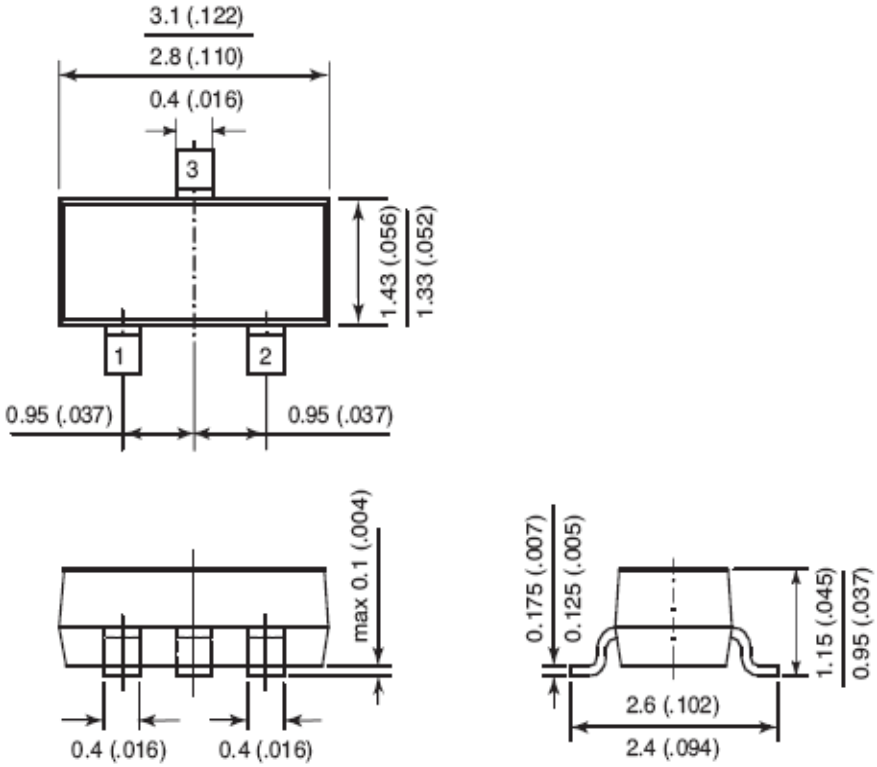


Marking Information:

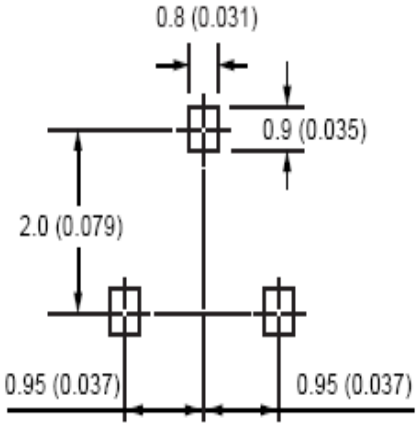


Dimensions in mm (inch)

SOT-23

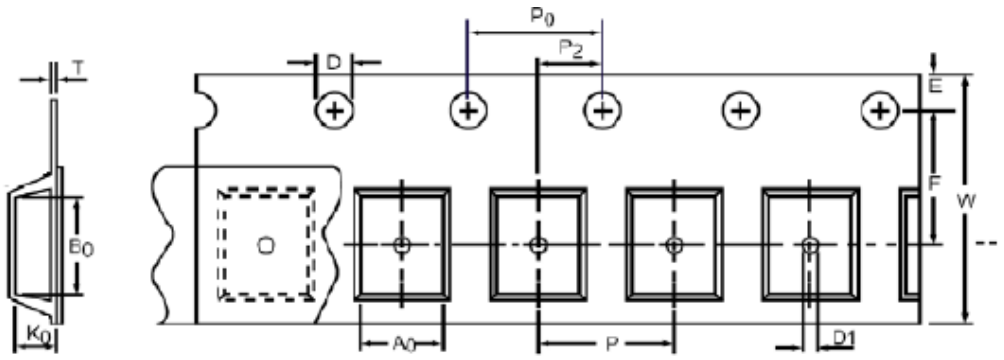


Mounting Pad Layout in mm (inch)



Packing Information:

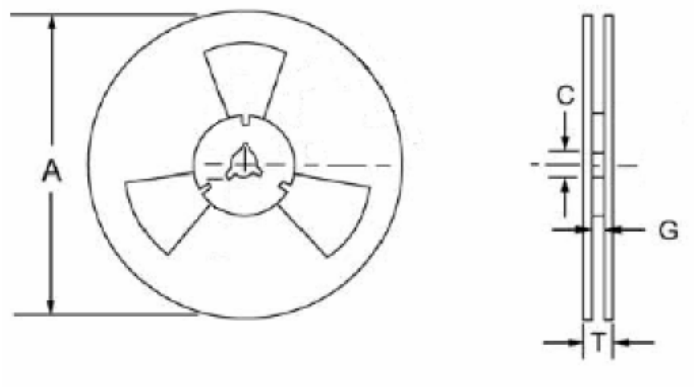
Carrier Tape Dimensions (in mm)



Product Type	A0	B0	K0	D	P0	P
	See Note			1.55±0.5	4.0±0.1	4.0±0.1
SOT-23	W	E	T	D1	F	P2
	8.0+0.3/-0.1	1.75±0.1	0.38±0.1	1.0±0.05	3.5±0.5	2.0±0.05

Note: Symbol A0, B0, K0 are determined by the maximum dimensions of the component size. The clearance between the component and the cavity must be within 0.05 mm (0.002'') min. to 0.50 mm (0.02'') max. for 8 mm tape.

Reel Dimensions (in mm)



A	C	G	T
178.0±2.0	13.0±0.5	8.4±2.0	14.4 max.

Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Inner Carton
TR70 Tape & Reel	3000/Reel	240000

Inner Carton Size Information:

Cartoon Size
390X270X400 (in mm)

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