

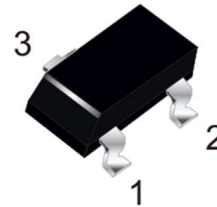
SWITCHING DIODE

Features

- Fast Switching Device (TRR < 6nS)
- Power Dissipation of 225mW
- Low Reverse Leakage
- High Stability and High Reliability

Appearance & Symbol

SOT-23



Mechanical Characteristics

- Package: SOT-23
- Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Tape Reel: 3000pcs

Marking information

BAW56	BAV70	BAV99
MARKING:A1	MARKING:A4	MARKING:A7

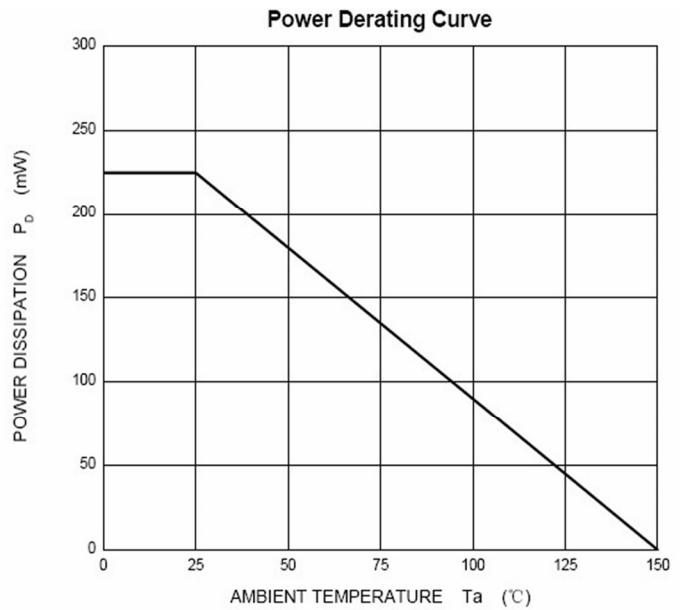
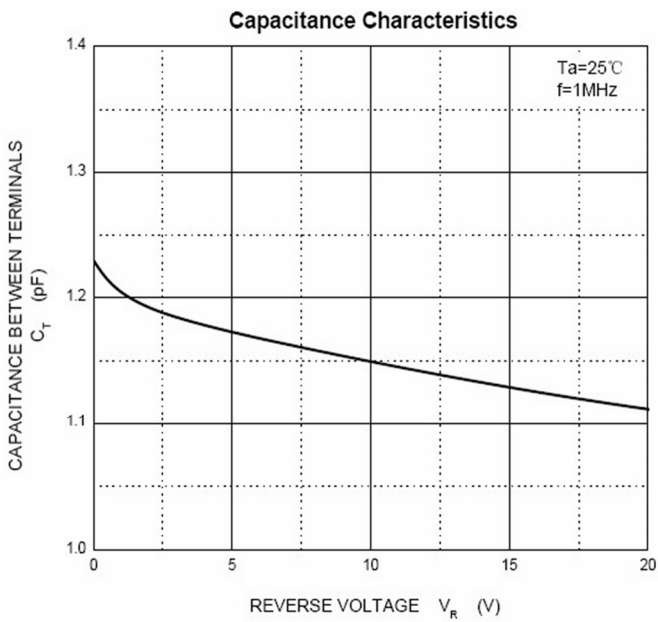
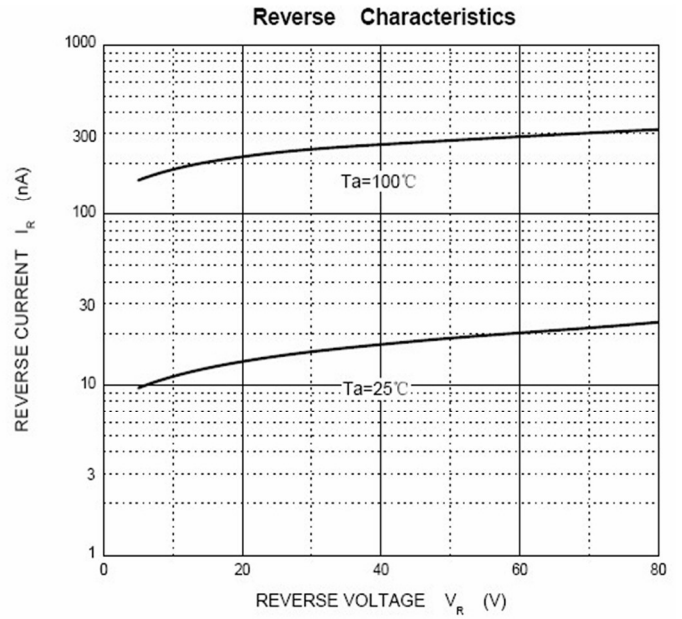
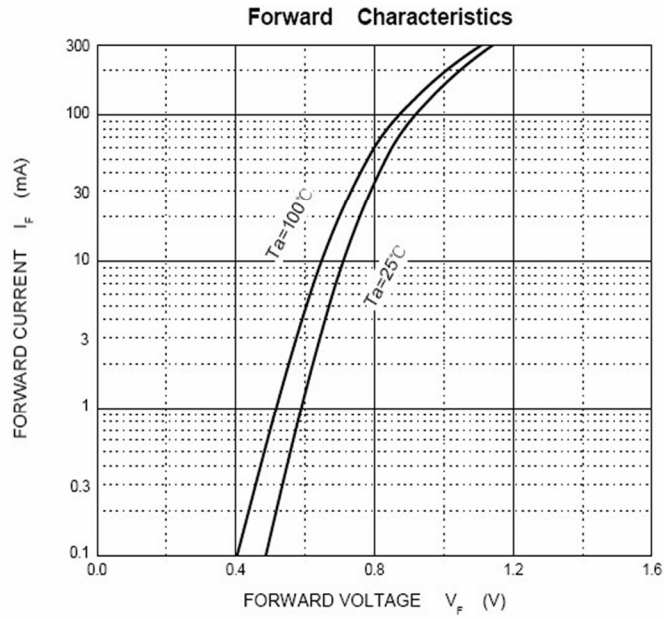
Absolute Maximum Ratings (T=25°C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse voltage	V_R	100	V
Average rectified output current	I_O	250	mA
Non-repetitive peak forward current	I_{FM}	400	mA
Peak Forward Surge Current @tp=1ms	I_{FSM}	2	A
Power Dissipation	P_D	225	mW
Operating Junction Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W

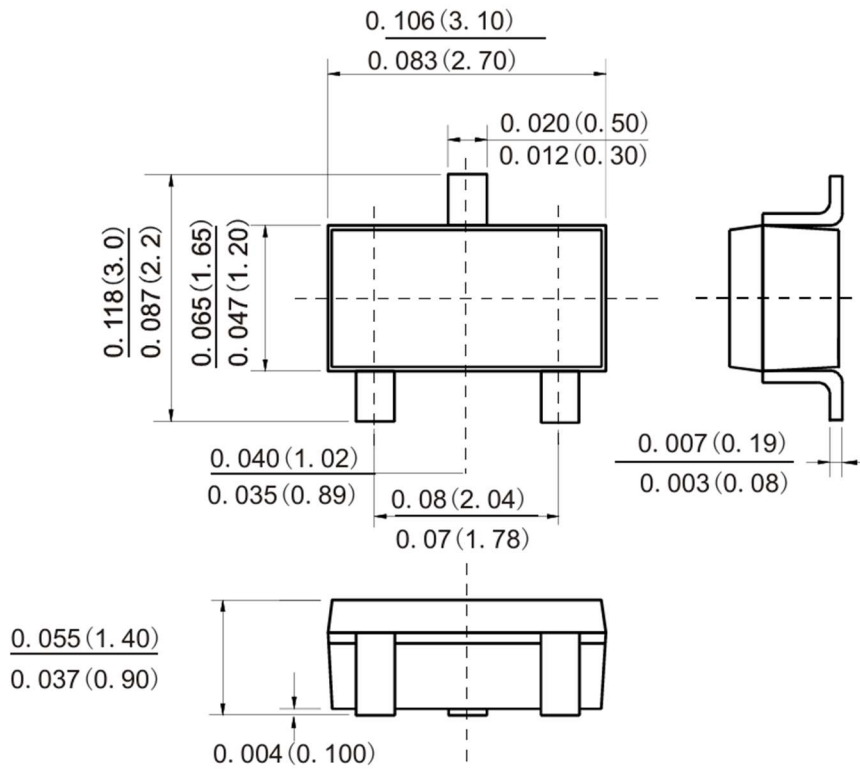
Electrical Characteristics (T=25°C, unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu A$	100		V
Reverse Leakage Current	I_R	$V_R = 100V$		1.0	μA
Forward Voltage	V_F	$I_F = 1.0mA$		0.715	V
		$I_F = 10mA$		0.855	
		$I_F = 50mA$		1	
		$I_F = 150mA$		1.25	
Total Capacitance	C_J	$V_R = 0, f=1MHz$		1.5	pF
Reverse Recovery Time	T_{RR}	$I_R = 10mA, I_F = 10mA$ $I_{RR} = 1mA, R_L = 100\Omega$		6	nS

Typical Characteristics

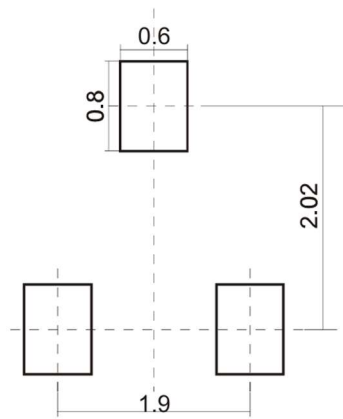


Package Outline Dimensions (Units: mm) SOT-23



Dimensions in inches and (millimeters)

Suggested Pad Layout



Dimensions in millimeters