

BAW156

SWITCHING DIODE

VOLTAGE	75 Volt	POWER	250 mWatt
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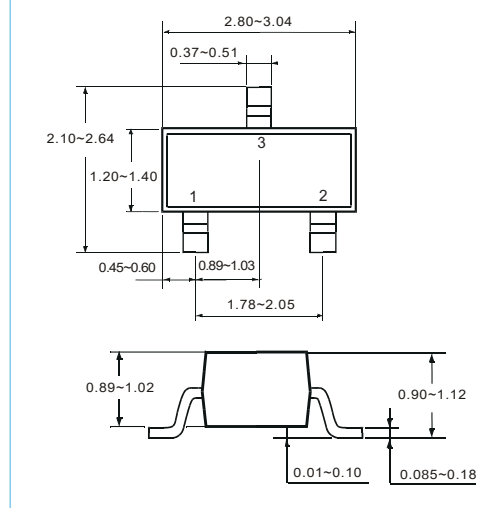
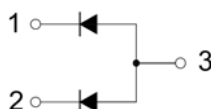
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- EFor General Purpose Switching Applications
- High Conductance
- Lead free in compliance with EU RoHS
- Marking code: JZ

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



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

Parameter	Symbol	Limit	Unit
Reverse Voltage	V _R	75	V
Forward Current	I _{FM}	160	mA
Non-Repetitive Peak Forward Surge Current @t=1s	I _{FSM}	0.5	A
Power Dissipation	P _D	250	mW
Thermal Resistance Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{STG}	-55~+150	°C

BAW156

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	75			V	$I_R=100\mu\text{A}$
Forward voltage	V_{F1}			0.90	V	$I_F=1\text{mA}$
	V_{F2}			1.00	V	$I_F=10\text{mA}$
	V_{F3}			1.10	V	$I_F=50\text{mA}$
	V_{F4}			1.25	V	$I_F=150\text{mA}$
Reverse current	I_R			5	nA	$V_R=75\text{V}$
Capacitance between terminals	C_T		3.0		pF	$V_R=0, f=1\text{MHz}$
Reverse recovery time	t_{rr}			3	us	$I_F = I_R = 10\text{mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$

BAW156

Typical Characteristics

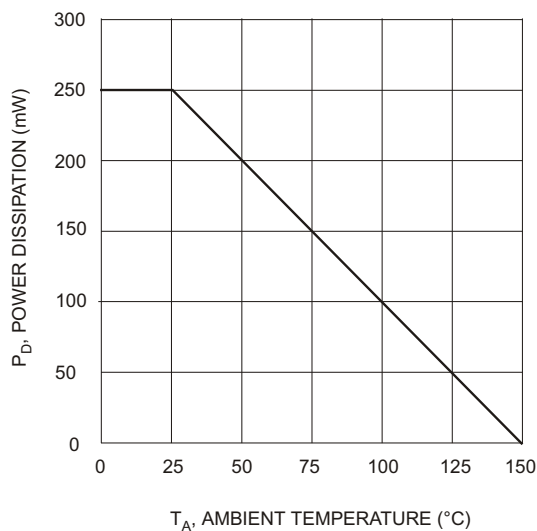


Fig. 1 Power Derating Curve

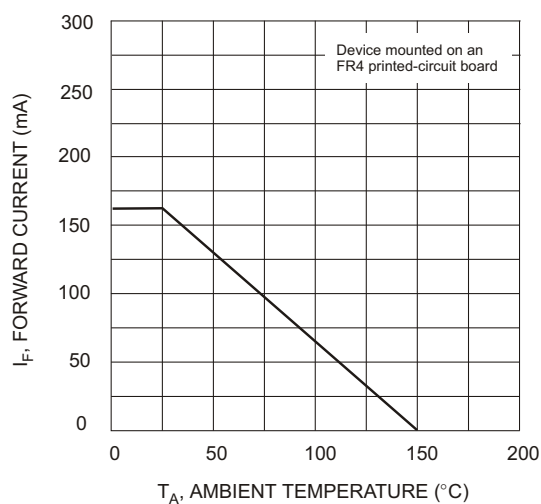


Fig. 2 Current Derating Curve

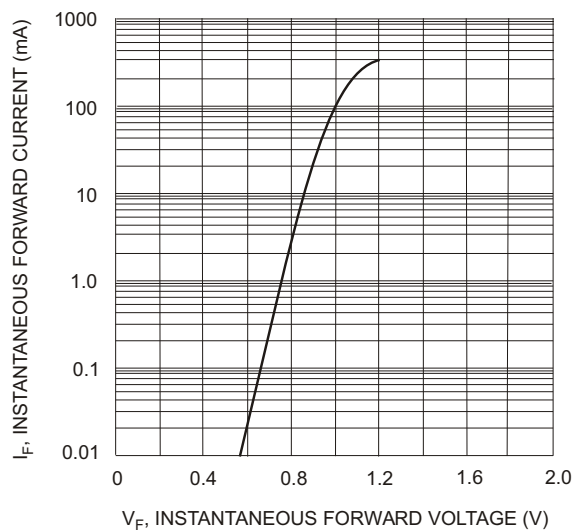


Fig. 3 Typical Forward Characteristics

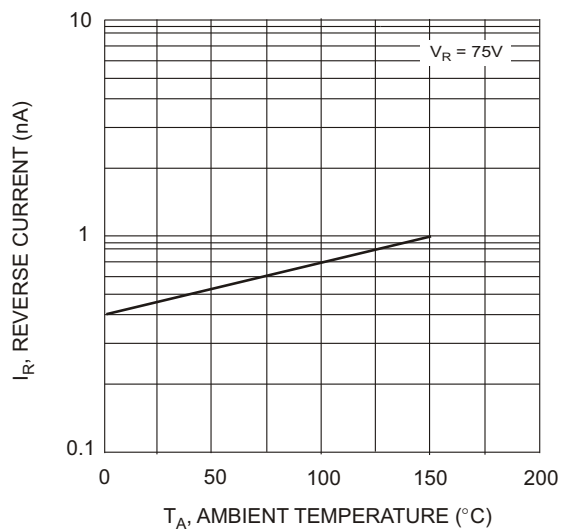


Fig. 4 Typical Reverse Characteristics

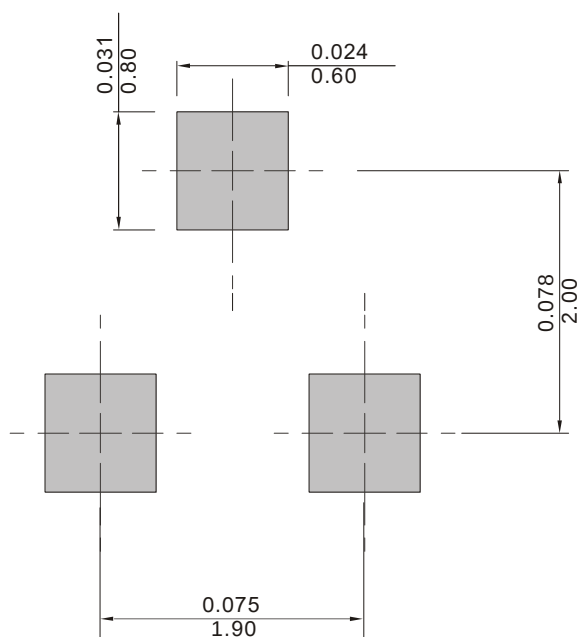
160

BAW156

MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAW156	SOT-23	7 Inch	3000