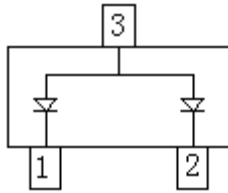


BAW156

Small-Signal Switching Diodes



SOT-23



Features

- V_R 75V
- I_{FAV} 160mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOT23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** JZ

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		85
Reverse Voltage	V_R	V		75
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t=8.3\text{ms}$, Half sine-wave	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_D	mW		225
Junction temperature	T_j	$^\circ\text{C}$		150
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +150

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Maximum Forward voltage	VF	V	$I_F=1\text{mA}$		0.9
			$I_F=10\text{mA}$		1
			$I_F=50\text{mA}$		1.1
			$I_F=150\text{mA}$		1.25
Maximum Reverse current	IR	nA	$V_R=75\text{V}$		5
Minimum Breakdown voltage	V_R	V	$I_R=100\mu\text{A}$	75	
Maximum Diode capacitance	C_D	pF	$V_R=0\text{V}$, $f=1\text{MHz}$		4
Maximum Reverse recovery time	t_{rr}	μs	$I_F=I_R=10\text{mA}$, $R_L=100\Omega$, $I_{RR}=1\text{mA}$		3



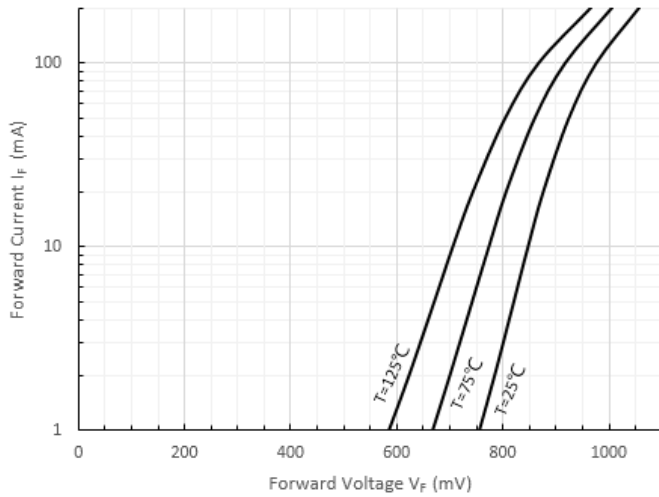
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Ordering Information (Example)

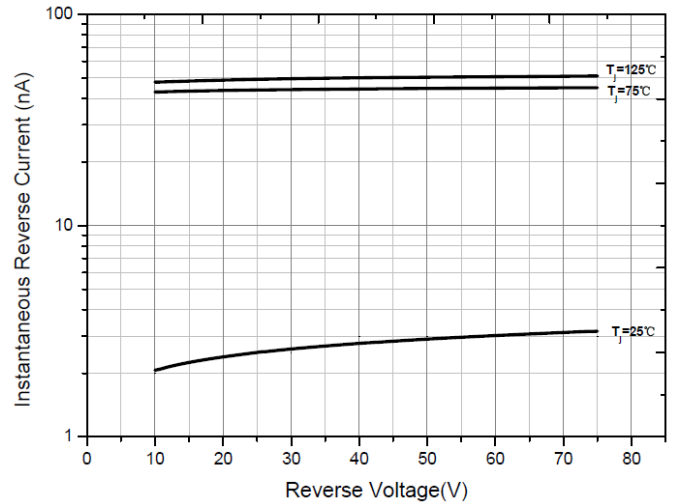
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAW156	F2	Approximate 0.008	3000	30000	120000	7" reel

Characteristics(Typical)

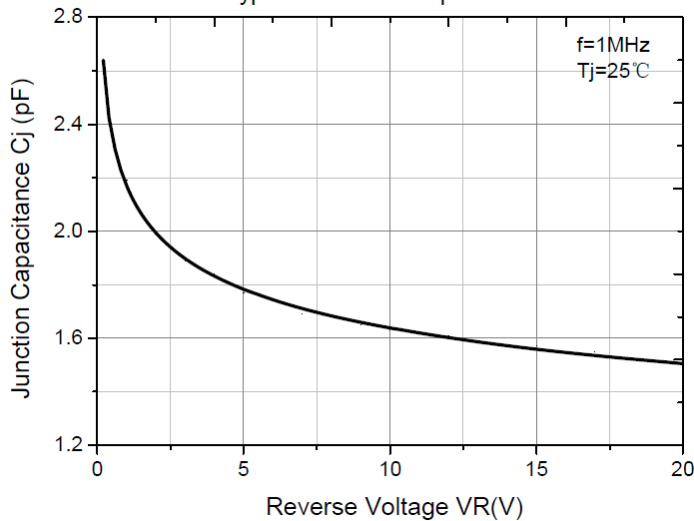
Forward Characteristics



Typical Reverse Characteristics



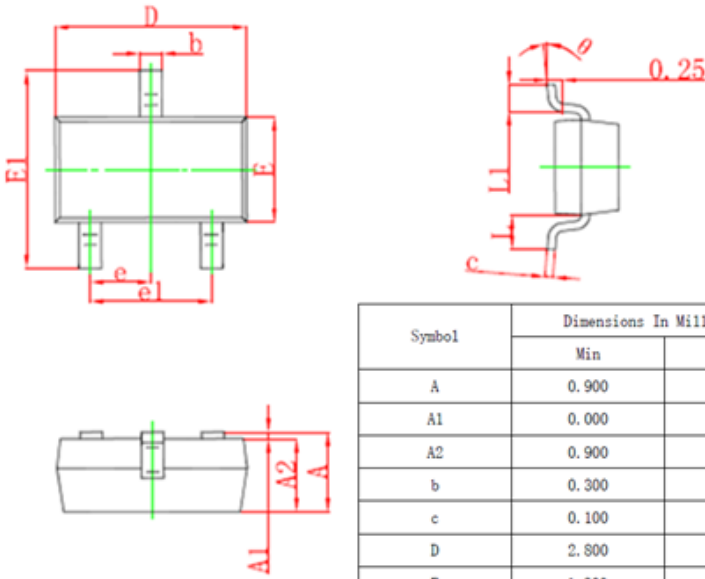
Typical Junction Capacitance





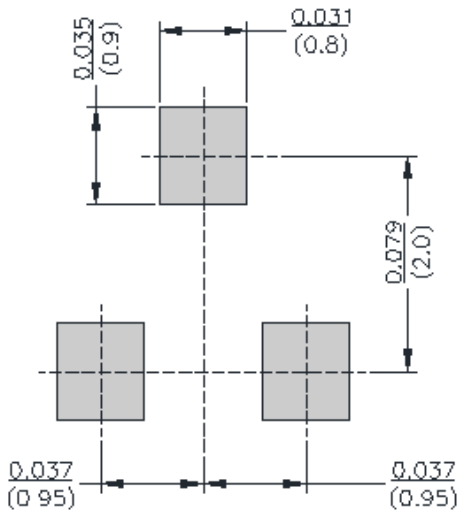
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■ SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
ø	0°	8°	0°	8°

■ SOT-23 Soldering Footprint





BAW156

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