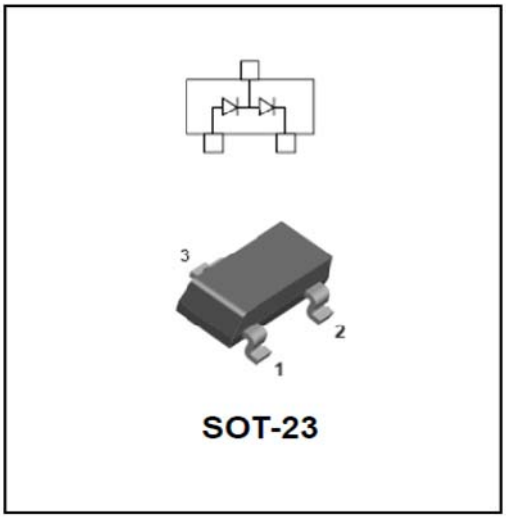
Small-Signal Fast Switching Diodes



Features

- VR 100V
- I_{FAV} single diode loaded 215mA
  double diode loaded 125mA

Typical Applications

- Low-Leakage

Mechanical Data

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

■Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V	IR=100uA	100
Peak forward surge current	IFSM	A	Non-Repetitive t = 1 μs	4
Average forward current	I_{FAV}	mA	single diode loaded	215
			double diode loaded	125
Power dissipation	P_{tot}	mW		250
Maximum junction temperature	T_j	℃		150
Storage temperature range	T_{stg}	℃		-55 to +150

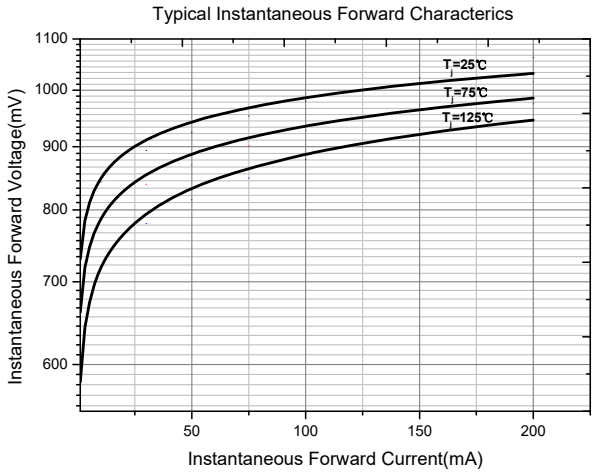
■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

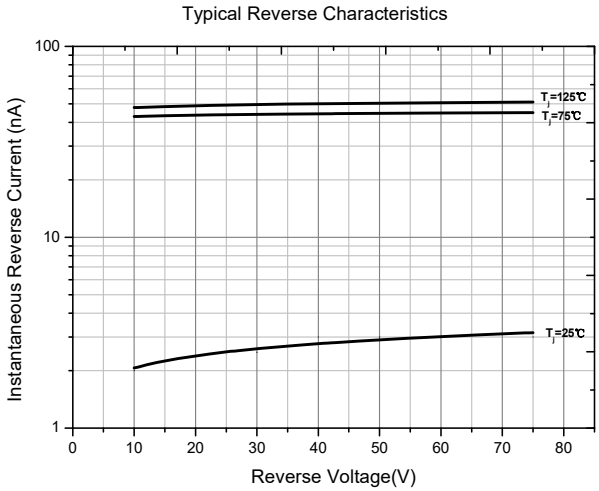
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	IR=100uA	100	
Forward Voltage	V_F	V	IF=1mA		0.9
			IF=10mA		1.0
			IF=50mA		1.1
			IF=150mA		1.25
Reverse Leakage Current	I_R	nA	VR=75V		5
Capacitance	C	pF	VR=0V,f=1MHz		4
Reverse Recovery Time	Trr	us	IF=IR=10mA，Irr=0.1*IR, RL=100Ω		3

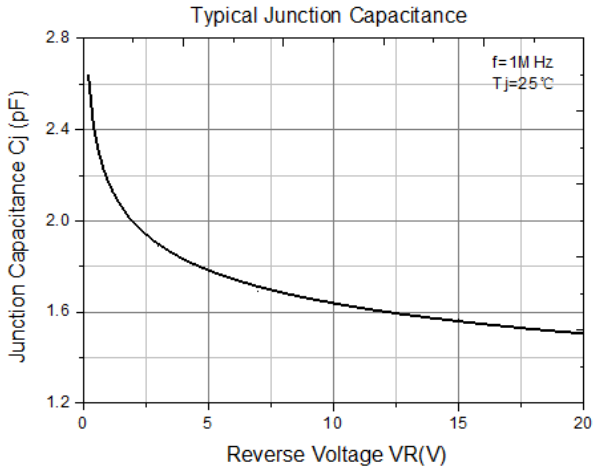
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV199	F2	Approximate 0.008	3000	30000	120000	7” reel

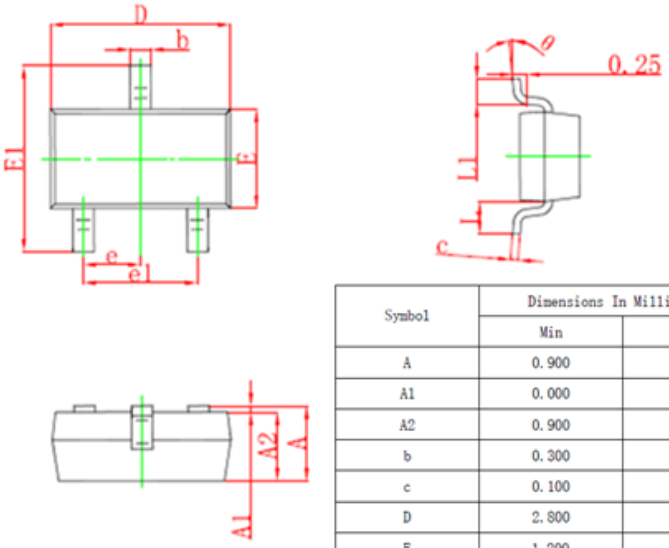
■ Characteristics (Typical)





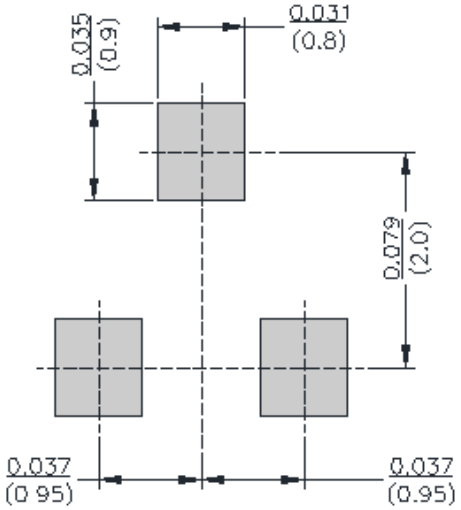


■SOT-23 Package Outline Dimensions



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
θ	0°	8°	0°	8°

■SOT-23 Suggested Pad Layout



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