

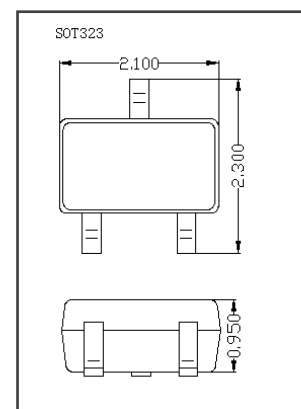
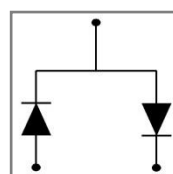
DATA SHEET

BAV99W

- ◇Epoxy meets UL 94 V-0 flammability rating
- ◇Small Outline Surface Mount Package
- ◇Low Current Leakage
- ◇For high-speed switching applications

Device Marking Code	
BAV99W	KJG

Equivalent Circuit



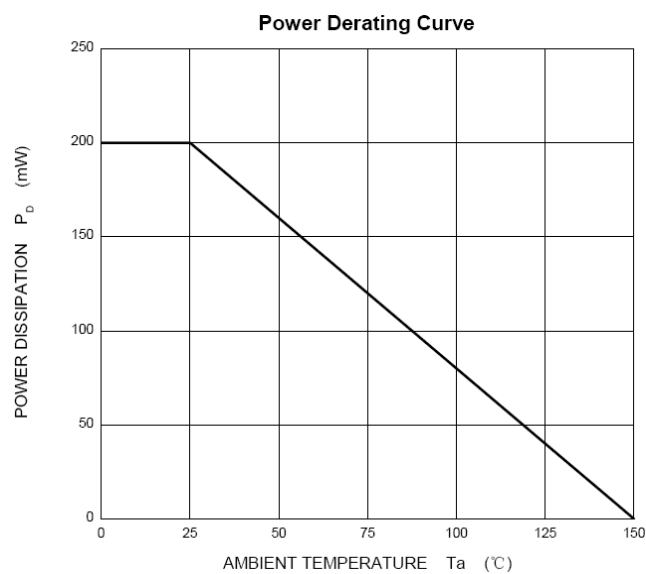
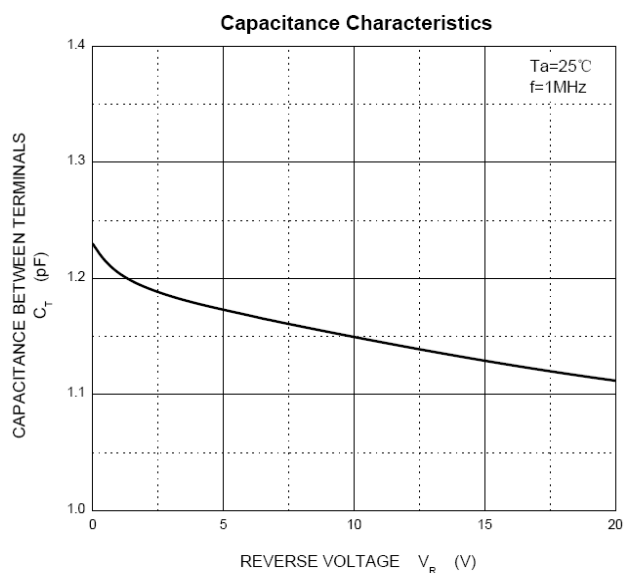
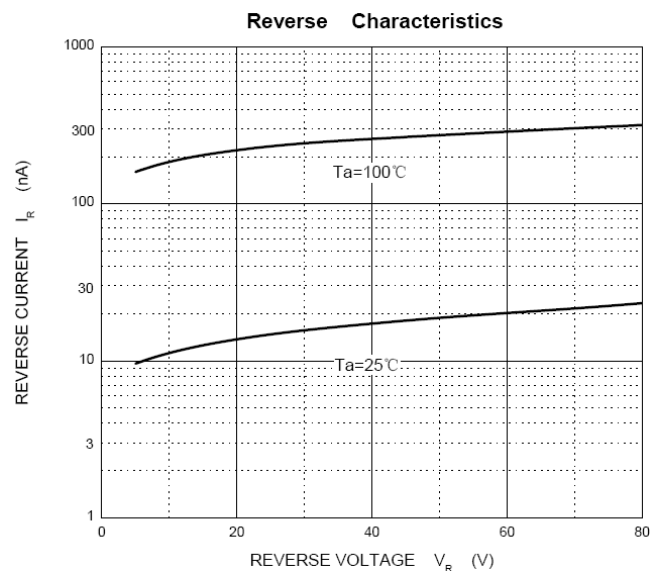
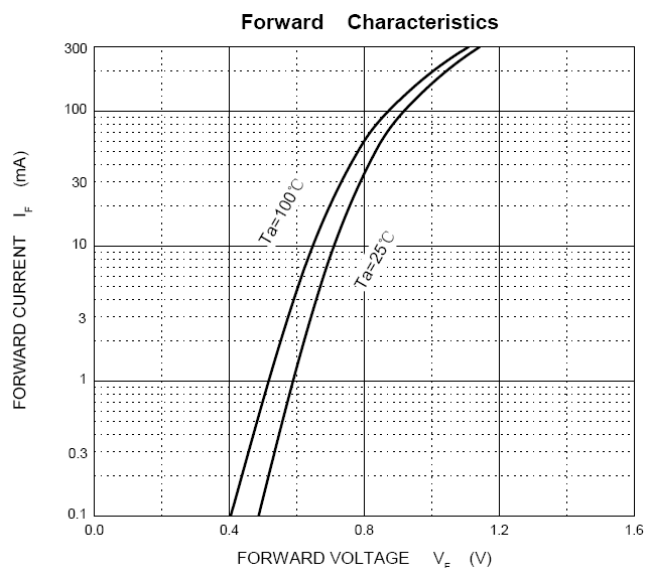
MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _R	Reverse Voltage	75	V
I _F	Forward Current	150	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
P _d	Power Dissipation	200	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to 150	°C
R _{θJA}	Thermal Resistance from Junction to Ambient	625	°C/W

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
V _{BR}	Reverse breakdown voltage	I _R =100uA	75			V
I _R	Reverse voltage leakage current	V _R =75V			2.5	uA
		V _R =25V			25	nA
V _F	Forward voltage	I _F =1mA			715	mV
		I _F =10mA			855	mV
		I _F =50mA			1000	mV
		I _F =150mA			1250	mV
C _D	Diode capacitance	V _R =0V, f=1MHZ			2	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA I _{rr} =0.1 × I _R , R _L =100Ω			4	nS

TYPICAL CHARACTERISTICS



ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV99W	SOT323	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS

Package outline : SOT323

TOP VIEW

SIDE VIEW

SYMBOL	DIMENSIONS IN MILLIMETER	
	MIN	MAX
A	0.900	1.000
A1	0.00	0.100
A2	0.900	1.000
b	0.200	0.400
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

FRONT VIEW

SOLDERING PATTERN

Notice:

1. Lead plating: Pb free solder
2. Lead thickness includes solder plating
3. Lead frame: CAC-5
4. Other Tolerance: ±0.05
6. Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
5. Unit: mm