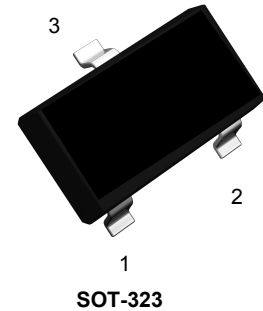


BAV99W

Fast Switching Diode

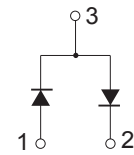
Features

- Fast switching speed
- High Conductance
- SOT-323 package
- RoHS compliant



Applications

- High-speed switching in surface mounted circuits



Schematic Diagram

Maximum Ratings

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

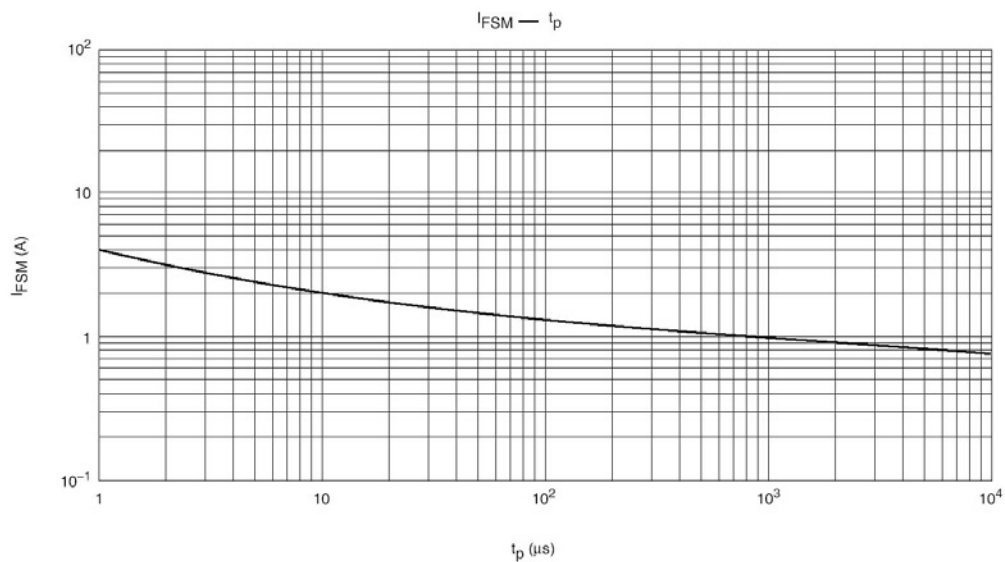
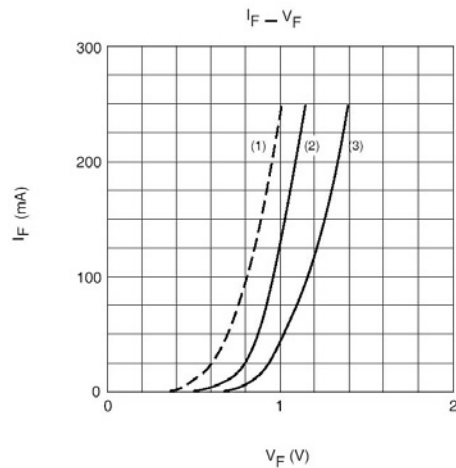
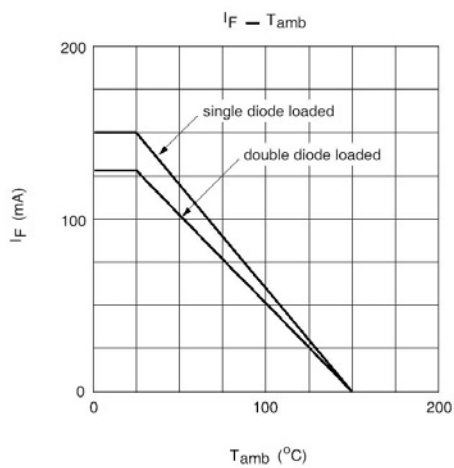
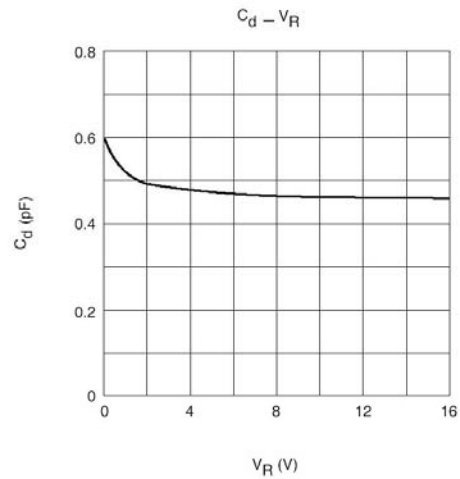
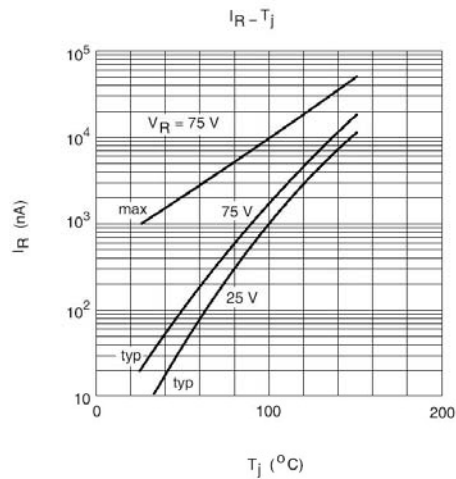
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Forward Current	I_O	150	mA
Forward Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics

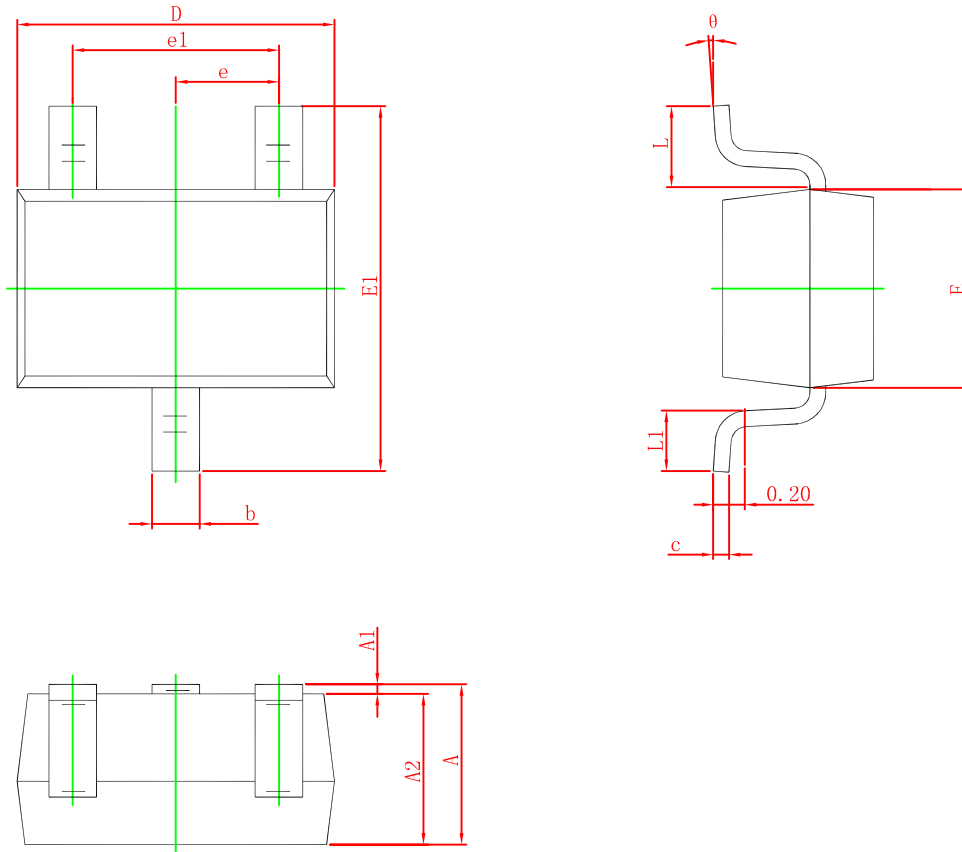
($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	75		V
Reverse Voltage Leakage Current	I_R	$V_R=75\text{V}$ $V_R=20\text{V}$		2.5 25	μA nA
Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$		715 855 1000 1250	mV
Diode Capacitance	C_D	$V_R=0\text{V}$ $f=1\text{MHz}$		2	pF
Revers Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$		4	ns

Typical Characteristic Curves



Product 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	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	1.950	2.350	0.077	0.093
E	1.150	1.350	0.045	0.053
E1	2.000	2.450	0.078	0.096
e	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
BAV99W	SOT-323	KJG	Tape & Reel	3000pcs/Reel	RoHS compliant