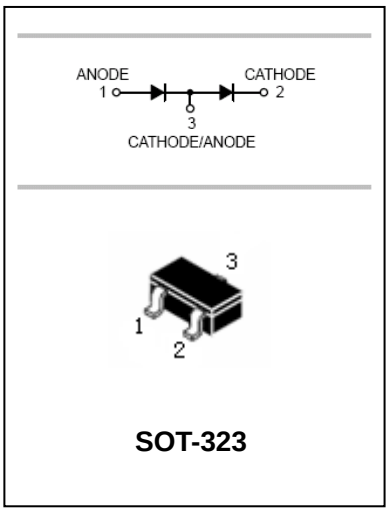
Dual series switching diode **BAV99W**

FEATURES

- Fast switching speed.
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion

Lead-free



SOT-323

APPLICATIONS

- For general purpose switching appilication.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99W	KJG	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Value**	**Unit**
Non repetitive peak reverse voltage	V_{RM}	100	V
Repetitive peak reverse voltage Working peak reverse voltage DC Reverse voltage	V_{RRM} V_{RWM} V_R	75	V
Peak forward surge current @t=1.0s @t=1.0μs	I_{FSM}	1.0 2.0	A
Forward continuous current	I_{FM}	300	mA
Average rectified output current	I_O	150	mA
Power dissipation	P_d	200	mW
Operating and storage temperature range	T_j,T_{STG}	-65-150	℃

Dual series switching diode **BAV99W**

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse voltage leakage current	I_R	V_R=75V V_R=20V		2.5 25	A nA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		715 855 1000 1250	mV
Junction capacitance	C_j	V_R=0V f=1MHz		2.0	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA V_R=5V R_C=100Ω		4	nS

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

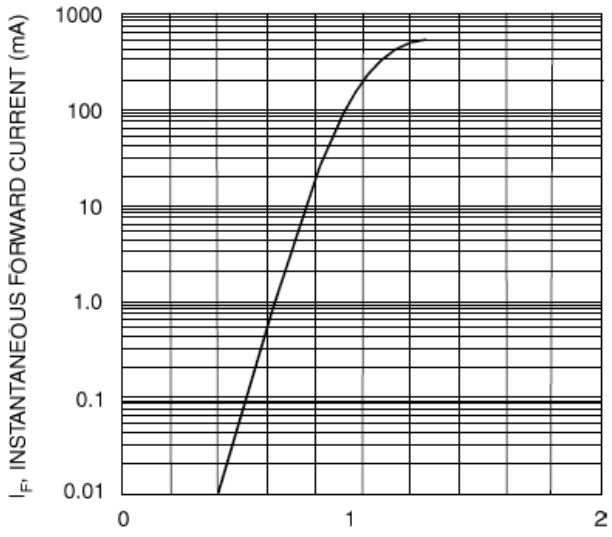


Fig. 1 Forward Characteristics

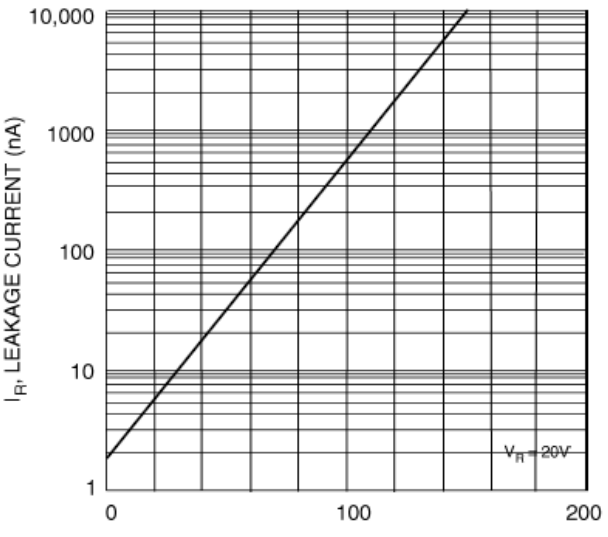
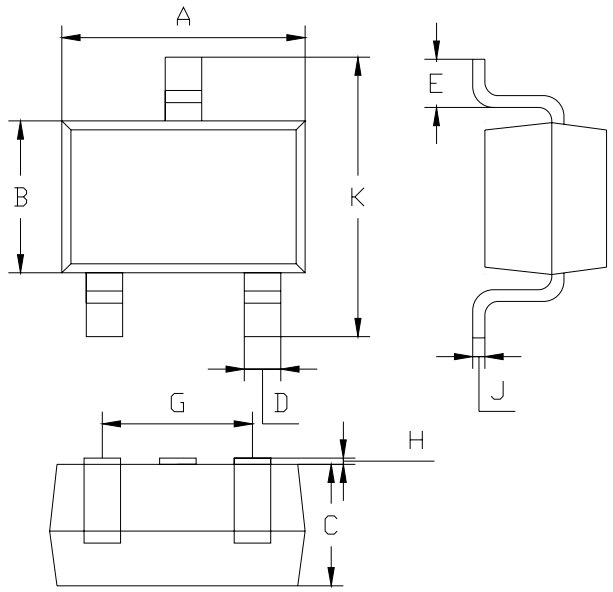


Fig. 2 Leakage Current vs Junction Temperature

Dual series switching diode **BAV99W**

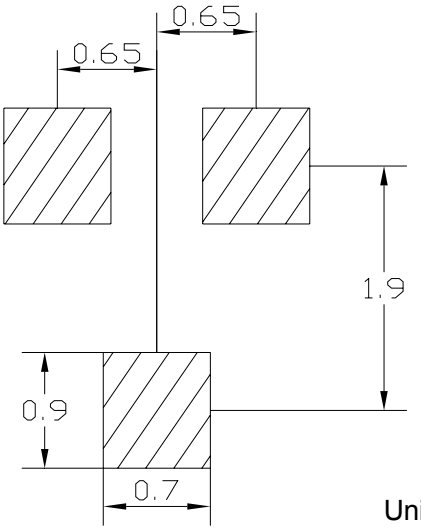
PACKAGE OUTLINE

Plastic surface mounted package SOT-323



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0Typical	
D	0.15	0.35
E	0.25	0.40
G	1.2	1.4
H	0.02	0.1
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV99W	SOT-323	3000/Tape&Reel