

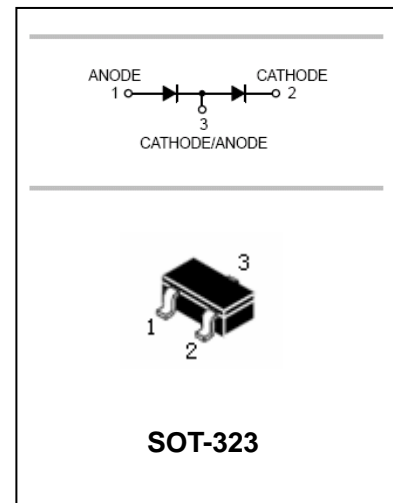
Dual series switching diode

BAV99W
FEATURES

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



Lead-free


APPLICATIONS

- For general purpose switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99W	KJG	SOT-323

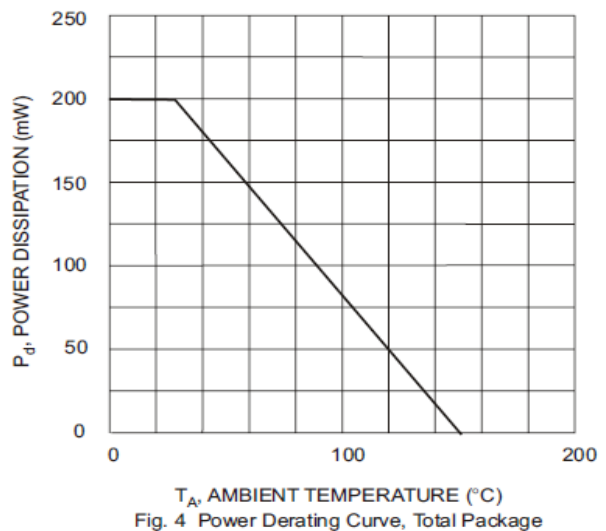
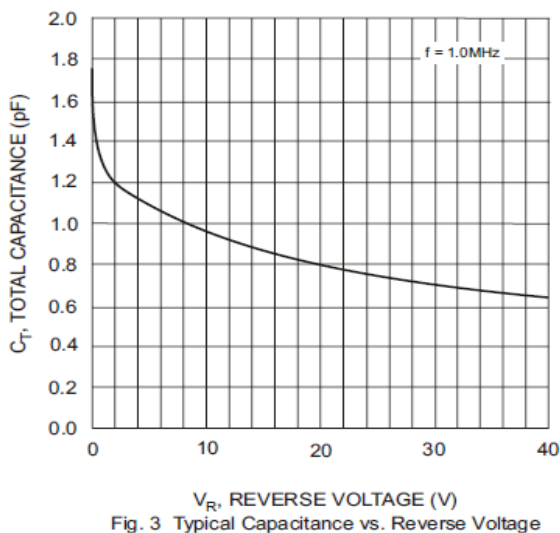
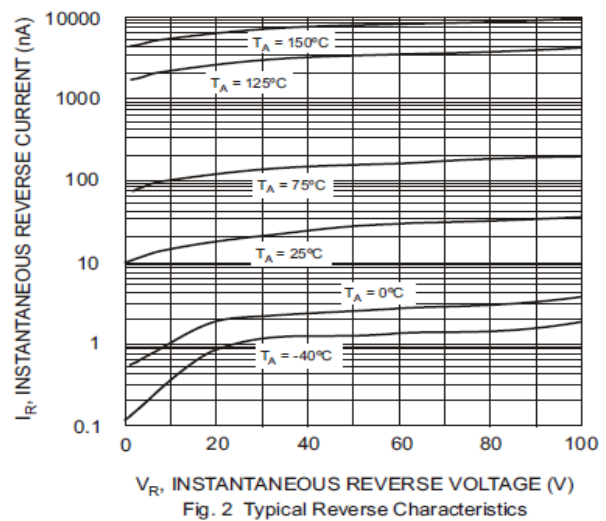
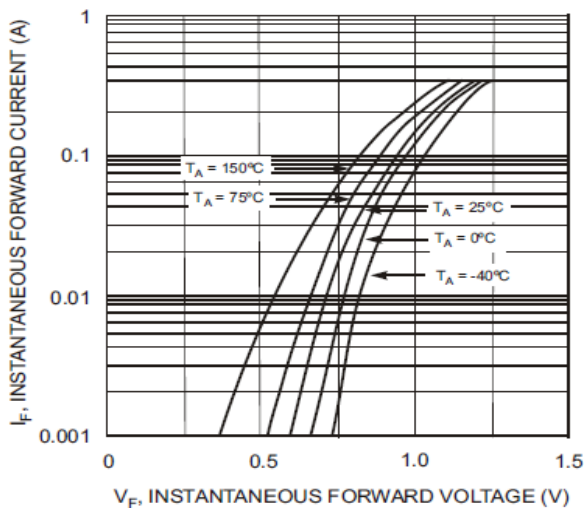
MAXIMUM RATING @ Ta=25°C unless otherwise specified

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
Average rectified output current	I_O	150	mA
Power dissipation	P_d	200	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	625	°C/W
Operating and storage temperature range	T_j, T_{STG}	-65 to +150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=2.5\mu A$	75		V
Reverse voltage leakage current	I_R	$V_R=75V$ $V_R=20V$		2.5 25	μA 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}	$I_F=I_R=10mA$ $I_{tr}=0.1 \cdot I_R, R_L=100\Omega$		4	nS

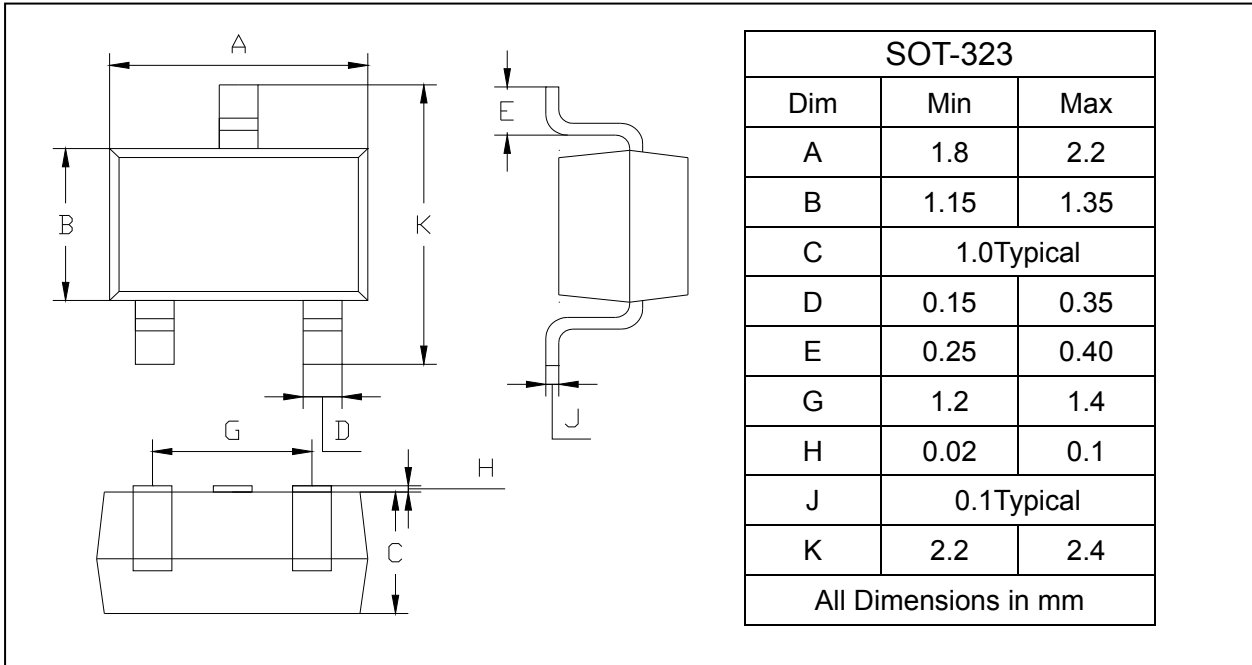
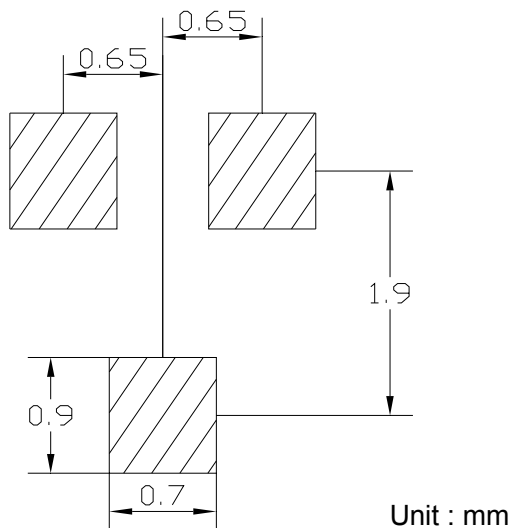
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified


Dual series switching diode

BAV99W
PACKAGE OUTLINE

Plastic surface mounted package

SOT-323


SOLDERING FOOTPRINT

PACKAGE INFORMATION

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