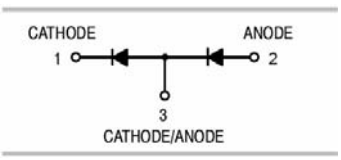
Dual series switching diode **BAV99RW**

FEATURES

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

Lead-free





SOT-323

APPLICATIONS

- ESD protection, polarity reversal protection, Data line protection, Inductive load protection.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99RW	F7	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Value**	**Unit**
Repetitive peak reverse voltage	V_{RRM}	70	V
DC Reverse voltage	V_R	70	V
Non-Repetitive forward surge current @t=1.0s @t=1.0ms @t=1.0μs	I_{FSM}	0.5 1.0 2.0	A
Peak forward surge current	$I_{FM(surge)}$	500	mA
Repetitive peak forward surge current	I_{FRM}	450	mA
Forward continuous current	I_F	215	mA
Average rectified forward current (averaged over any 20ms period)	$I_{F(AV)}$	715	mA
Power dissipation	P_d	200	mW
Thermal resistance junction-to-ambient	$R_{\theta JA}$	625	℃/W
Operating and storage temperature range	T_j,T_{STG}	-65-150	℃

Dual series switching diode **BAV99RW**

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_{(BR)}$=100μA	70		V
Reverse voltage leakage current	I_R	V_R=70V		2.5	μA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		715 855 1000 1250	mV
Diode capacitance	C_D	V_R=0V f=1MHz		1.5	pF
Reverse recovery time	t_{rr} 然	I_F=I_R=10mA R_L=100Ω		6.0	nS
Forward recovery voltage	V_{FR}	I_F=10mA,t_r=20ns		1.75	V

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

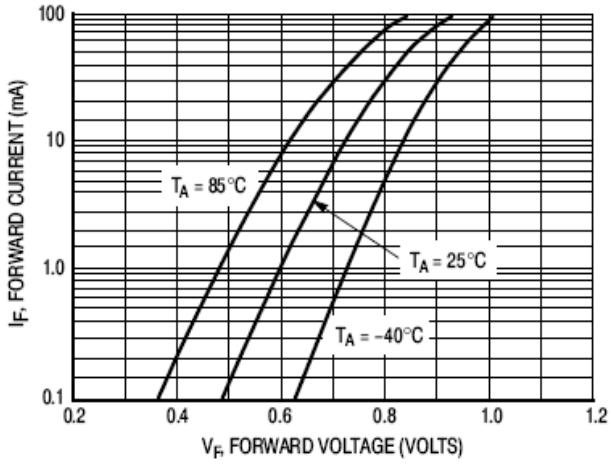


Figure 2. Forward Voltage

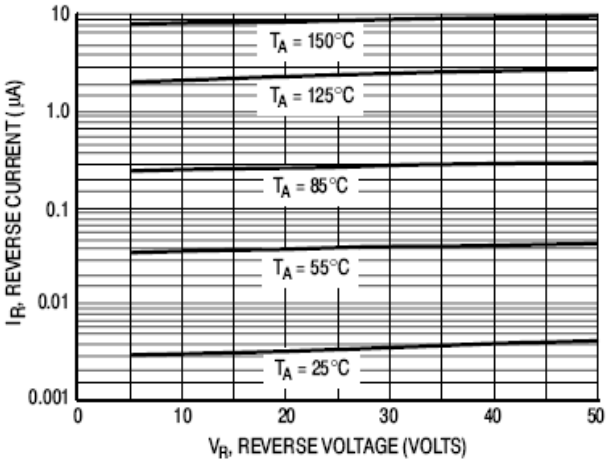


Figure 3. Leakage Current

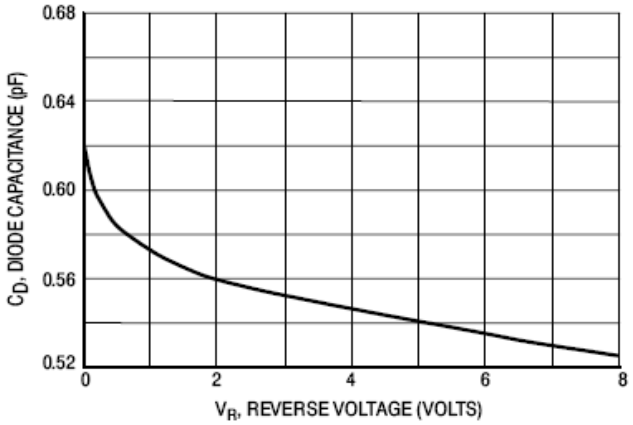
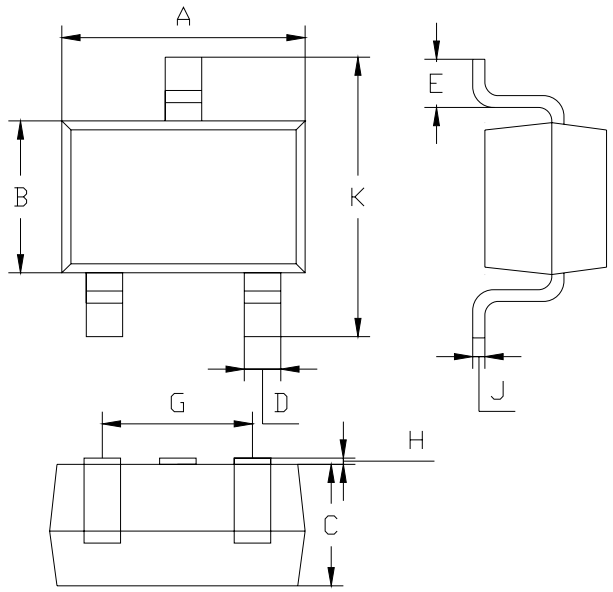


Figure 4. Capacitance

Dual series switching diode **BAV99RW**

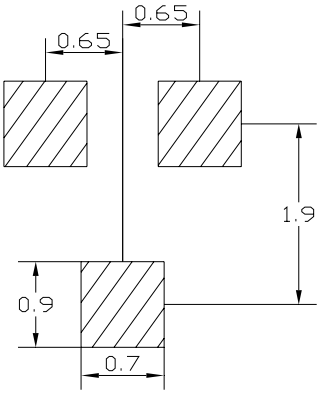
PACKAGE OUTLINE

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
BAV99RW	SOT-323	3000/Tape&Reel