

Dual series switching diode

BAV99

FEATURES

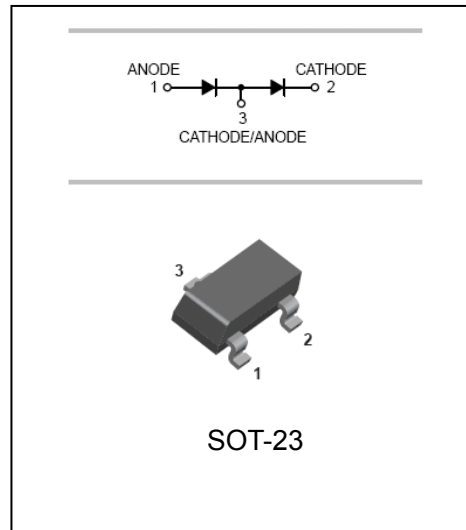
- Fast switching speed Max:6ns
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion



Lead-free

APPLICATIONS

- Small signal switching



ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99	A7	SOT-23

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	V_{RRM}	70	V
Working peak reverse voltage	V_{RWM}		
DC Reverse voltage	V_R		
Peak forward surge current @t=1.0s @t=1.0μs	I_{FSM}	1 4.5	mA
Forward current	I_F	250	mA
Power dissipation	P_d	300	mW

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	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}	$I_F=I_R=10mA$ $V_R=5V$ $R_C=100\Omega$		6	nS

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

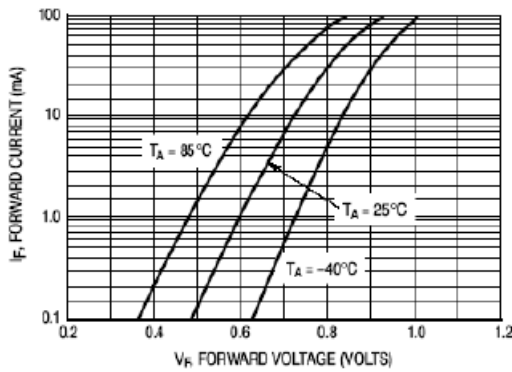


Figure 1. Forward Voltage

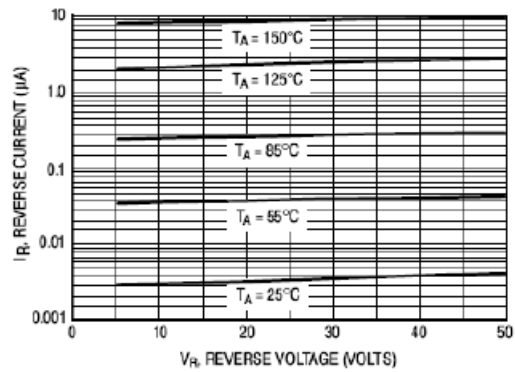


Figure 2. Leakage Current

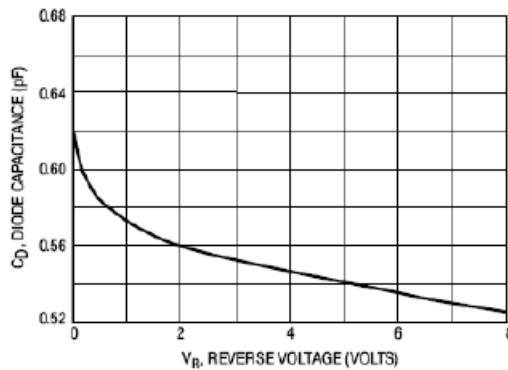


Figure 3. Capacitance

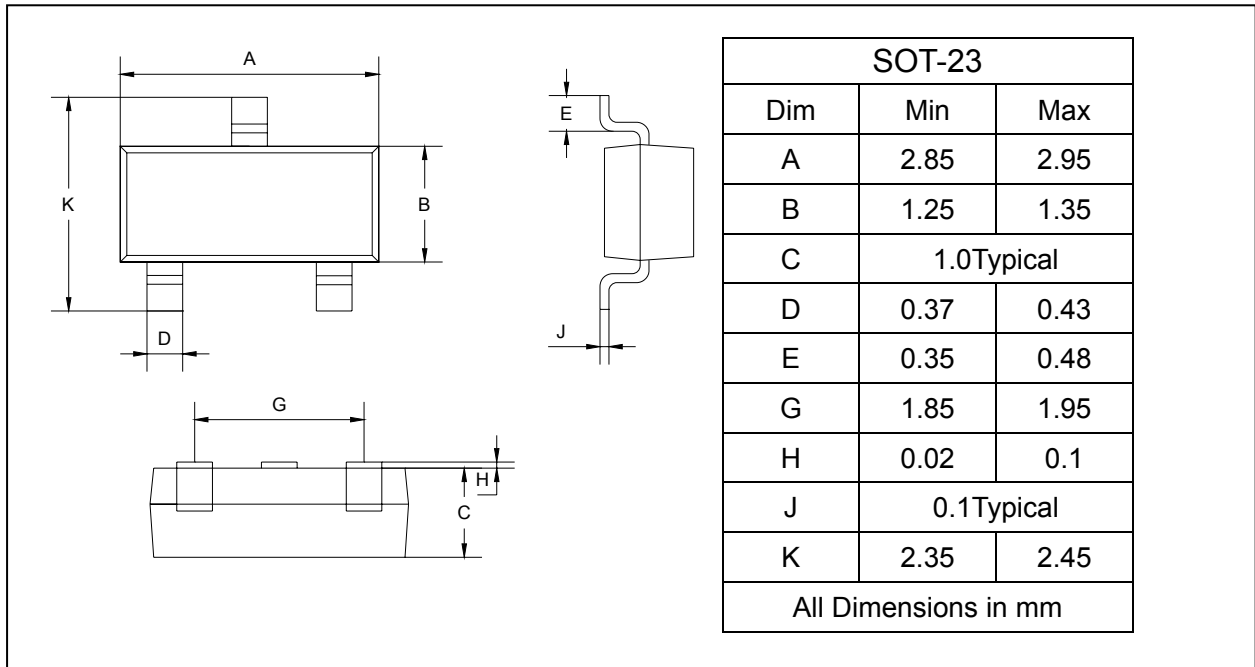
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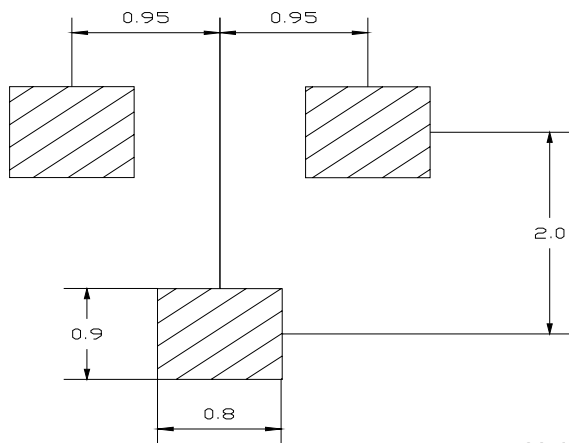
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV99	SOT-23	3000/Tape&Reel