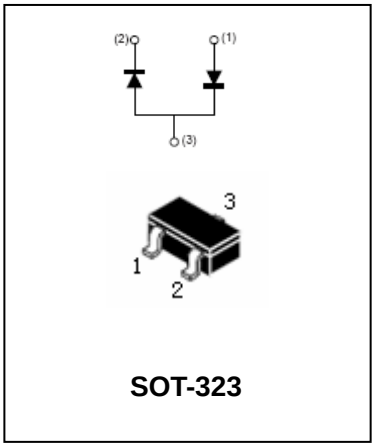
Dual series switching diode **BAV99WGP**

FEATURES

Lead-free

- Small surface mounting type. (SOT-323)
- High speed. (T_{RR}=1.5nSec Typ.)
- Suitable for high packing density.
- Maximum total power disspation is 300mW.
- Peak forward current is 450mA.



SOT-323

APPLICATIONS

- For general purpose switching appilication.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99WGP	A7	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Value**	**Unit**
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	85	V
Maximum RMS Voltage	V_{RMS}	60	V
Maximum DC Blocking Voltage	V_{DC}	75	
Peak Forward Surge Current at 1uSec.	I_{FSM}	4.0	A
Average rectified output current	I_O	150	mA
Typical Junction Capacitance between Terminal (Note 1)	C_J	1.5	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nS
Maximum Operating Temperature Range	T_j	+150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

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ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse voltage leakage current	I_R	V_R=75V		1.0	uA
Forward voltage	V_F	I_F=150mA		1250	mV

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

FIG. 1 - TYPICAL FORWARD CURRENT DERAING CURVE

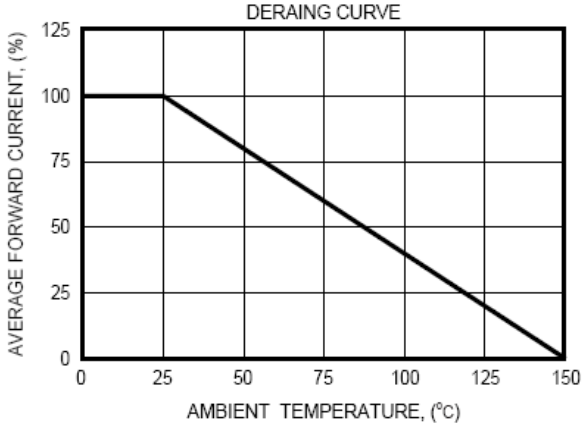

FIG. 2 - FORWARD CHARACTERISTICS

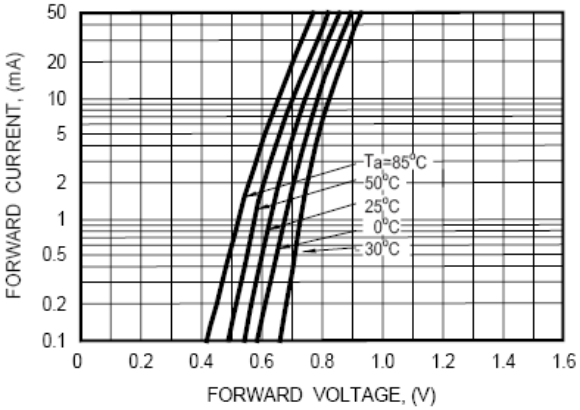

FIG. 3 - TYPICAL JUNCTION CAPACITANCE

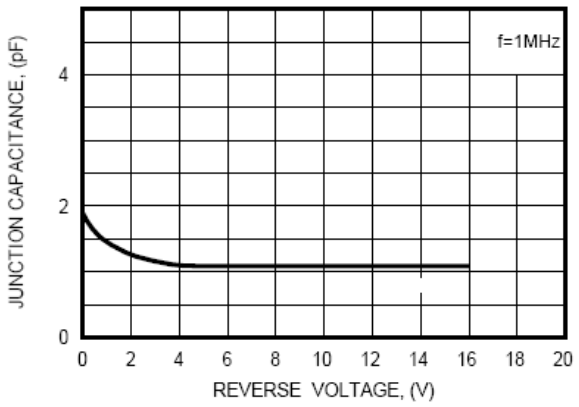

FIG. 4 - REVERSE CHARACTERISTICS

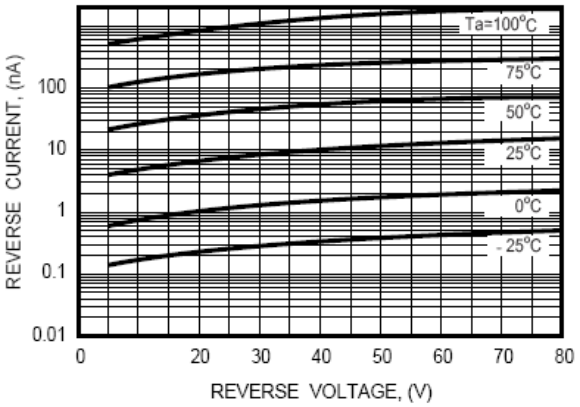

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FIG. 5 - REVERSE RECOVERY TIME

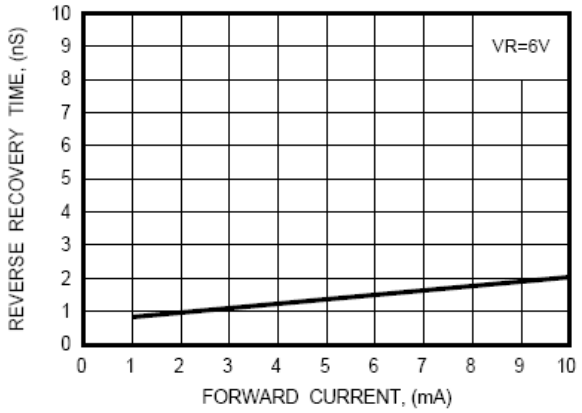
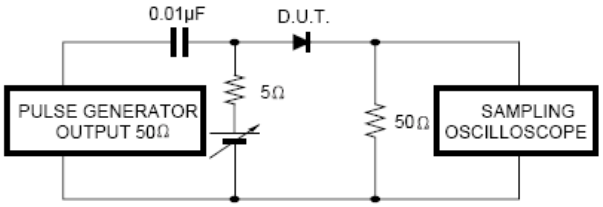
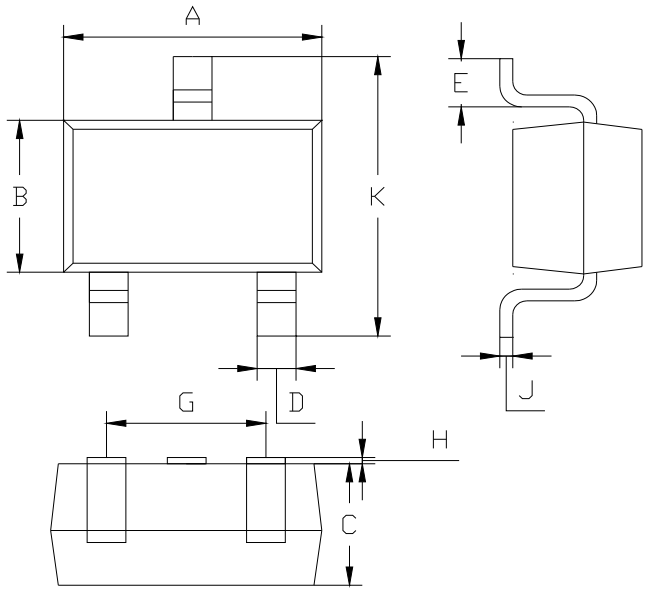


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT



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	2.2	2.4
All Dimensions in mm		

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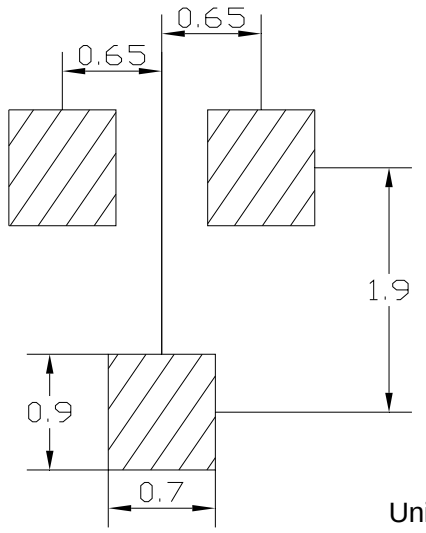
SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV99WGP	SOT-323	3000/Tape&Reel