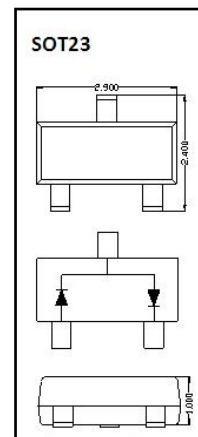


DATA SHEET

BAV99

- ◇ Fast Switching Speed
- ◇ For General Purpose Switching Applications
- ◇ High Conductance
- ◇ Low Current Leakage
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

Device Marking Code	
BAV99	A7



MAXIMUM RATINGS (Ta = 25 °C)

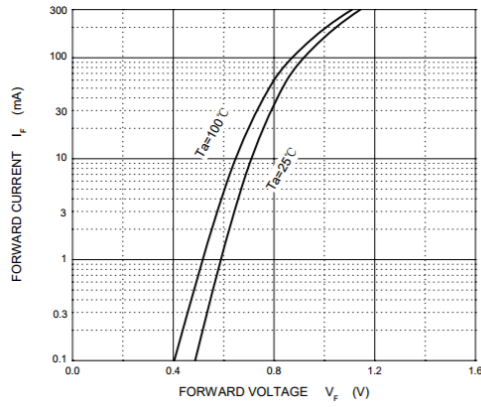
Symbol	Parameter	Value	Units
VR	Reverse Voltage	70	V
IF	Forward Current	200	mA
Rθ JA	Thermal Resistance Junction to Ambient	556	°C/W
IFSM	Non-Repetitive Peak Forward Surge Current*1	2.0	A
PD	Power Dissipation	225	mW
TJ	Junction Temperature	150	°C
TSTG	Storage Temperature	-55 to +150	°C

*1 8.3 ms single half sine-wave

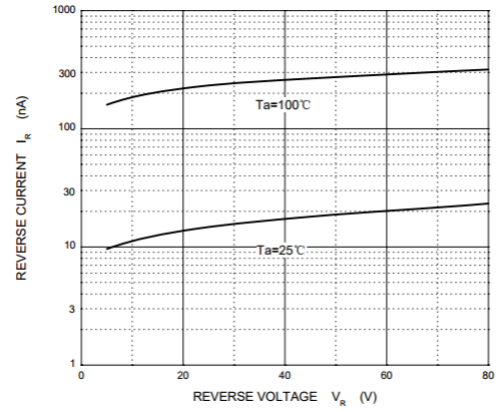
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
VF	Forward Voltage	IF=1mA		0.715	V
		IF=10mA		0.855	V
		IF=50mA		1	V
		IF=150mA		1.25	V
VR	Reverse breakdown voltage	IR=100uA	75		V
IR	Reverse voltage leakage current	VR=70V		2.5	uA
CT	Capacitance between terminals	VR=0V, f=1MHz		2	pF
Trr	Reverse recovery time	IF= IR=10mA Irr=0.1×IR, RL=100Ω		6	nS

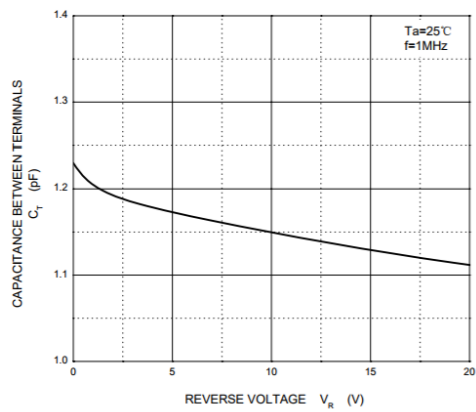
Typical characteristics



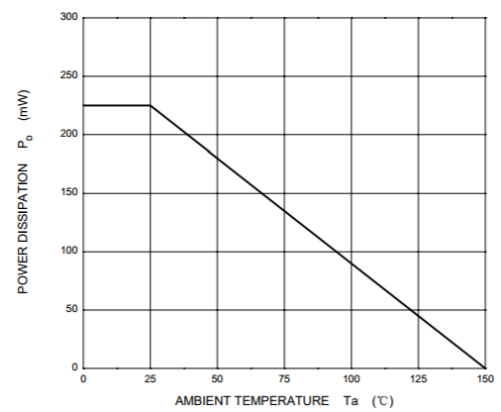
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV99	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS

