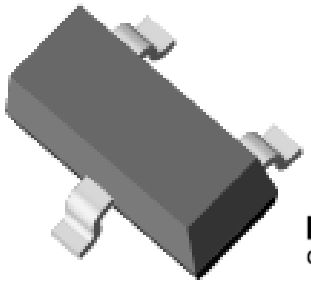
Dual Surface Mount Switching Diode

Features

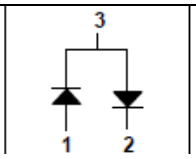
- Guard ring construction for transient protection
- Fast Switching speed
- Low reverse leakage
- High temperature soldering guaranteed: 260℃ /10 second, 0.375”(9.5mm) lead length



RoHS COMPLIANT

SOT-23

Mechanical Data

Case:	SOT-23, molded plastic
Pingout:	See diagram 
Terminals:	Solderable per MIL-STD-202E, Method 208C
Polarity:	Color band denotes cathode end
Mounting position:	
Weight:	0.0045 Ounce, 0.008 gram

Maximum Ratings *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	BAV99	Unit	Conditions
VRRM	Non-Repetitive Peak Reverse Voltage	75	**V**	
IFM	Forward Continuous Current	300	**mA**	Note 1
tπ	Max Reverse Recovery Time	4	**nS**	**IF= 10mA, IR=10mA, IRR=1mA,RL=100Ω**
IFSM	Non-Repetitive Peak Forward Aurge Current	2.0 1.0	**Amps**	T=1.0**μS, T=1.0S**
PTOT	Power dissipation	200	**mW**	Note 1
TJ, TSTG	Operating and Storage Temperature	-55 to +125 / -55 to +150	**℃**	

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	BAV99	Unit	Conditions
VF	Max Instantaneous Forward Voltage	0.715	**V**	1.0mA
		0.0855		10mA
		1.0		50mA
		1.25		150mA
IR	Max DC Reverse Current at Rated DC Blocking Voltage	2.5	**μA**	VR=75V
		50		VR=75V,TJ=150℃
		30		VR=25V,TJ=150℃
CJ	Typical Junction Capacitance	2.0	**pF**	Vf=1V, f=1MHZ
RθJA	Typical Thermal Resistance	355	**℃/W**	

Note:

1. Valid provided leads kept at ambient temperature

Ratings And Characteristic Curve

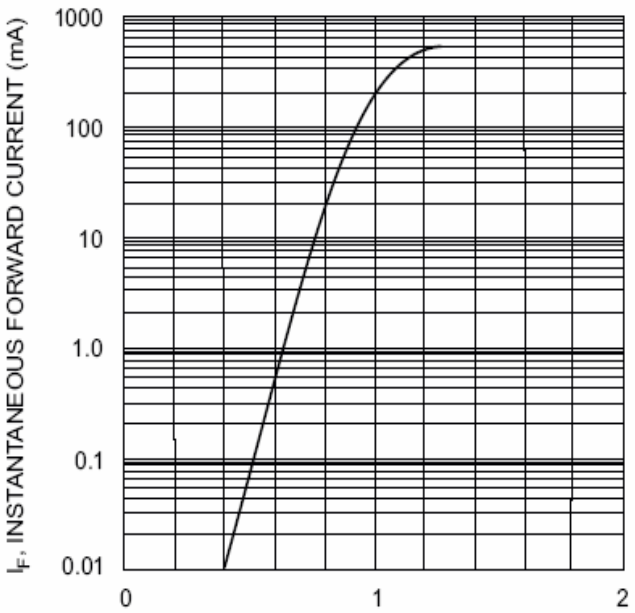


Fig. 1 Forward Characteristics

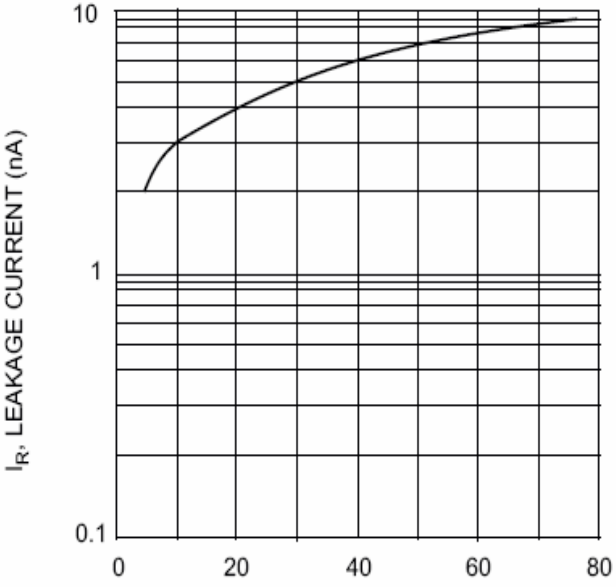


Fig. 2 Typical Leakage Current vs Reverse Voltage

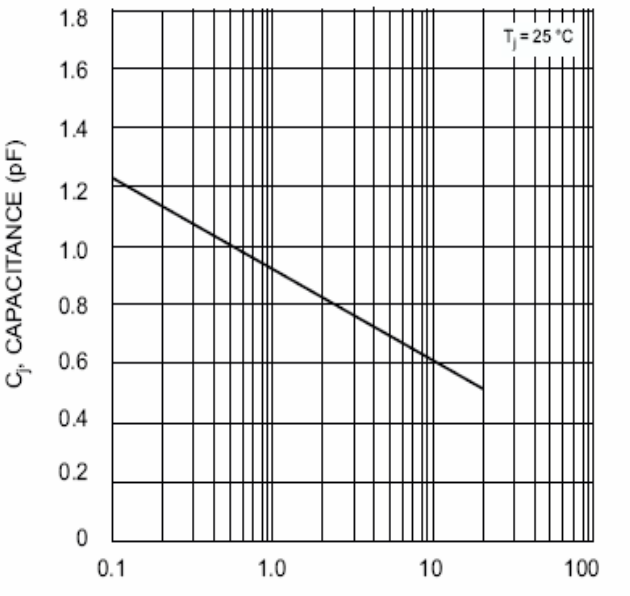
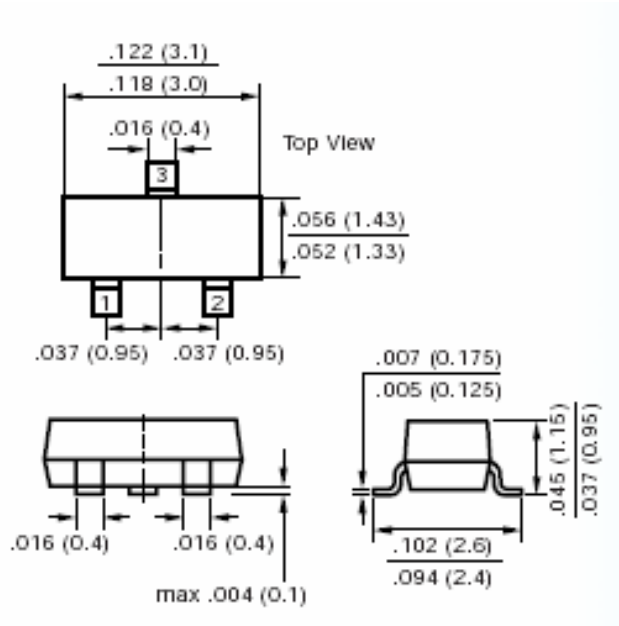


Fig. 3 Typical Junction Capacitance vs Reverse Voltage

BAV99

Dimensions in inch (mm)



SOT-23

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