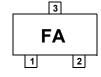
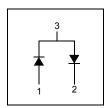


BAV99WT1G Small Signal Diode





Connection Diagram



SOT-323

Absolute Maximum Ratings * Ta = 25°C unless otherwise noted

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	70	V
I _{F(AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 2.0	A A
T _{STG}	Storage Temperature Range www.DataSheet4U.com	-65 to +150	°C
T _J	Operating Junction Temperature	150	°C

Thermal Characteristics

Symbol	Parameter	Value	Unit
P _D	Power Dissipation	270	mW
R _{0JA} Thermal Resistance, Junction to Ambient		460	°C/W

FR-4 board (3.0 \times 4.5 \times 0.062" by 1.0 \times 0.5" land pads)

$\textbf{Electrical Characteristics} \quad \textbf{T}_{\text{C}} = 25\,^{\circ}\text{C unless otherwise noted}$

Symbol	Parameter	Conditions	Min.	Max	Units
V _R	Breakdown Voltage	I _R = 100μA	70		V
V _F	Forward Voltage	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA		715 855 1.0 1.25	mV mV V
I _R	Reverse Leakage	V _R = 70V V _R = 25V, T _A = 150°C V _R = 70V, T _A = 150°C		2.5 50 70	μΑ μΑ μΑ
C _T	Total Capacitance	V _R = 0V, f = 1.0MHz		2.0	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 10 \text{mA}, I_{RR} = 1.0 \text{mA},$ $R_L = 100 \Omega$		6.0	ns

Typical Performance Characteristics

Figure 1. Power Voltage Characteristics

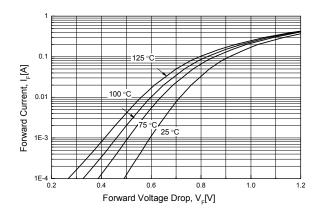


Figure 2. Reverse Current vs Reverse Voltage

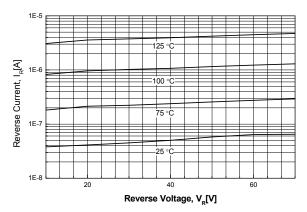


Figure 3. Total Capacitance

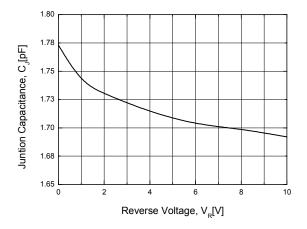
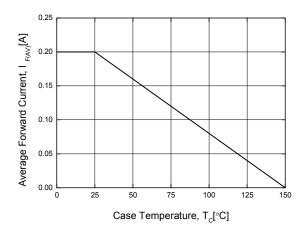


Figure 4. Power Derating Curve



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FACT™	ImpliedDisconnect™	OCX™	RapidConfigure™	TruTranslation™
FACT Quiet Series™		OCXPro™	RapidConnect™	UHC™
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