

BAV74

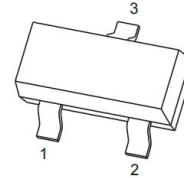
Switching Diode

FEATURE

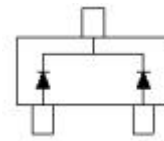
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- Rohs Compliant / Green EMC

MARKING: JA

SOT-23



Schematic diagram



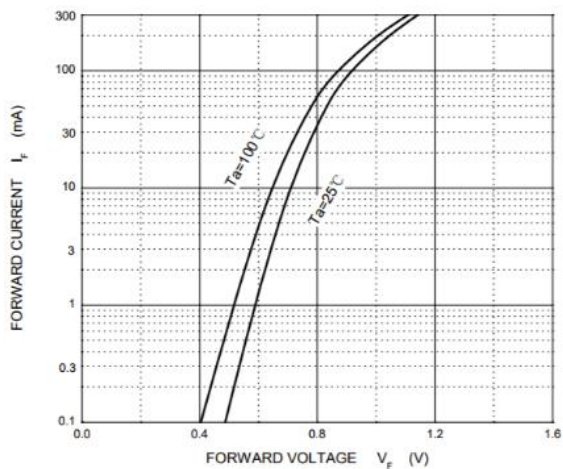
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	50	V
Average Rectified Output Current	I_o	200	mA
Power Dissipation	P_{tot}	225	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^\circ\text{C}$
Thermal Resistance	R_J	556	$^\circ\text{C}/\text{W}$

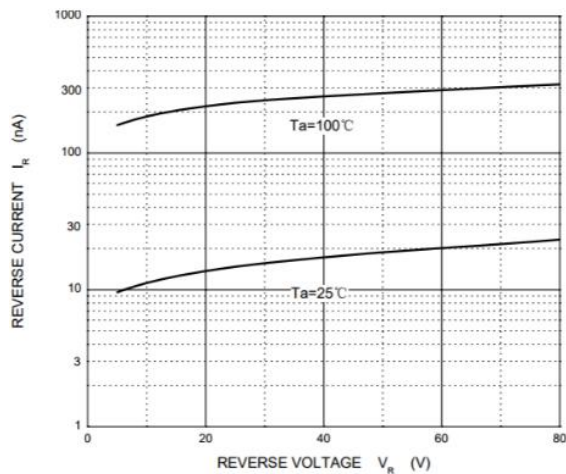
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V_F	$I_F=100\text{mA}$			1.0	V
Reverse breakdown voltage	V_R	$I_R=100\mu\text{A}$	75			V
Reverse voltage leakage current	I_R	$V_R=50\text{V}$			0.1	μA
Typical Junction Capacitance	C_J	$V_R=0\text{V}, f=1.0\text{MHz}$			2	pF
Reverse recovery time	T_{rr}	$I_F=10\text{mA}, V_R=0\text{V}, R_L=100\Omega$			4	nS

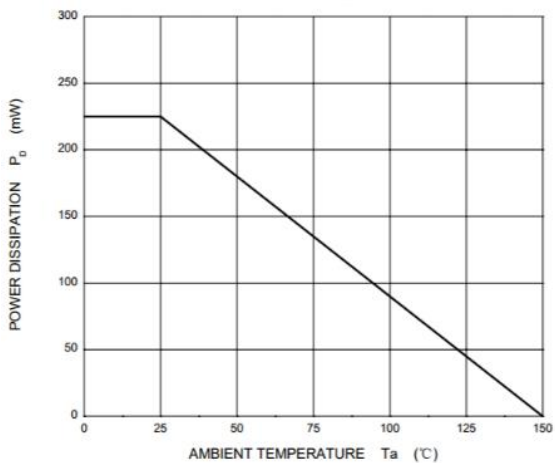
Typical Electrical



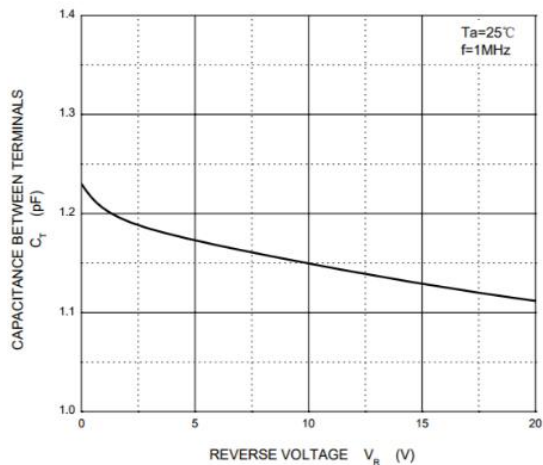
Forward Characteristics



Reverse Characteristics

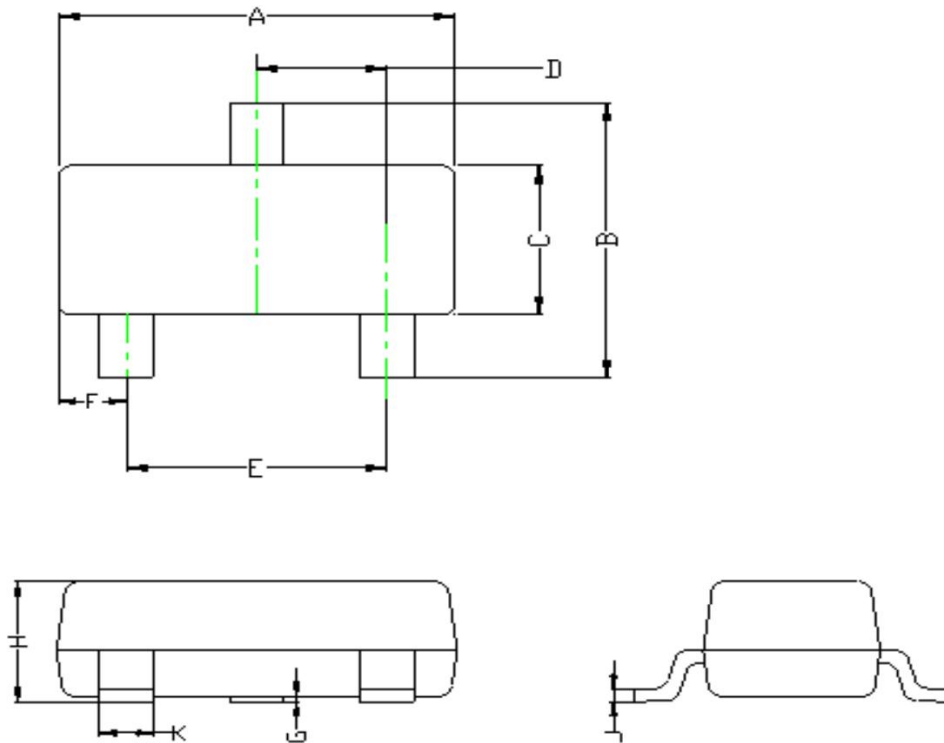


Power Derating Curve



CT vs VR

SOT-23 Package Information



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	2.800	-	3.040
B	2.100	-	2.640
C	1.200	-	1-400
D	0.890	-	1.030
E	1.780	-	2.050
F	0.450	-	0.600
G	0.013	-	0.100
H	0.900	-	1.110
J	0.090	-	0.180
K	0.370	-	0.510

1. Unit mm