

BAV70

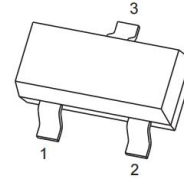
Switching Diode

FEATURE

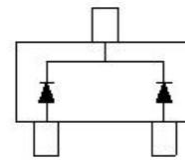
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS compliant / Green EMC

MARKING: A4

SOT-23



Schematic diagram



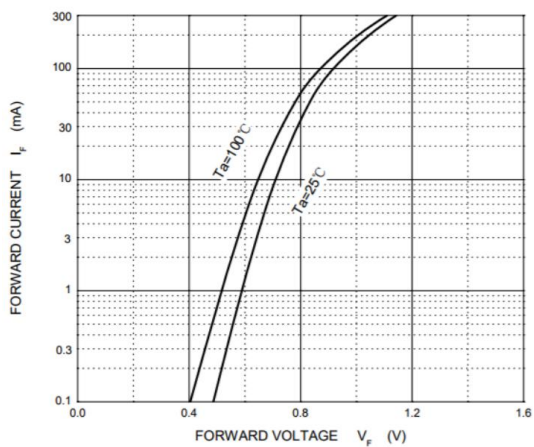
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_O	150	mA
Power Dissipation	P_{tot}	350	mW
Peak Forward Surge Current @ $t=1.0\text{S}$ Non-Repetitive	I_{FSM}	1.0	A
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^{\circ}\text{C}$
Thermal Resistance	R	357	$^{\circ}\text{C}/\text{W}$

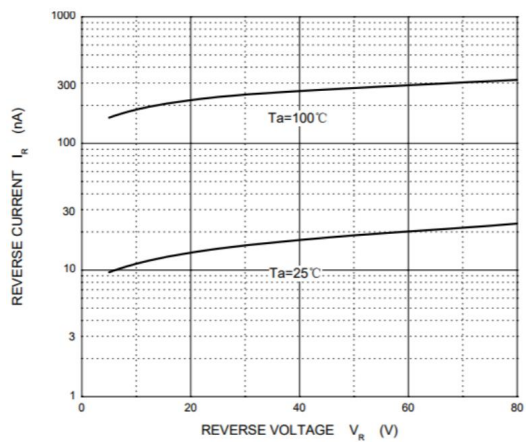
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V_F	$I_F=1\text{mA}$			0.715	V
		$I_F=10\text{mA}$			0.855	V
		$I_F=50\text{mA}$			1.00	V
		$I_F=150\text{mA}$			1.25	V
Reverse breakdown voltage	V_R	$I_R=100\mu\text{A}$	75			V
Reverse voltage leakage current	I_R	$V_R=75\text{V}$			2.5	μA
		$V_R=75\text{V}$ $T_a=150^{\circ}\text{C}$			50	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

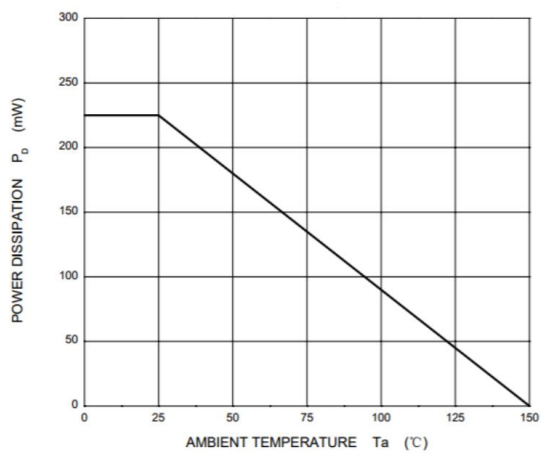
Typical Electrical



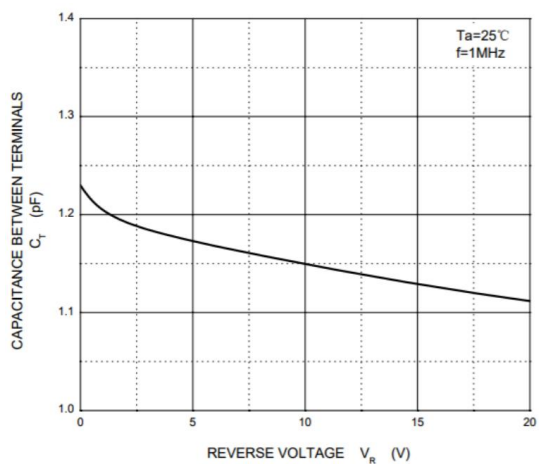
Forward Characteristics



Reverse Characteristics

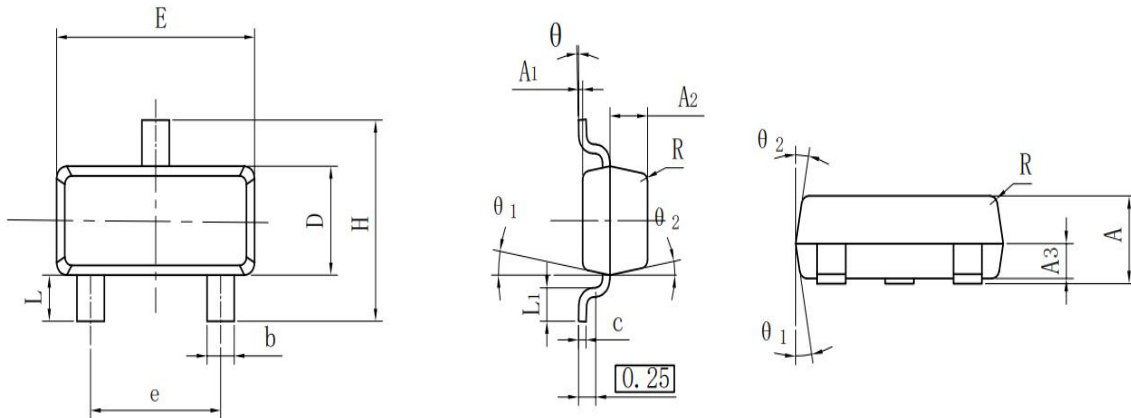


Power Derating Curve



CT vs VR

SOT-23 Package Information



SYMBOL	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.10	0.035	0.043
A1	0.02	0.10	0.001	0.004
A2	0.50	0.60	0.020	0.024
A3	0.35	0.45	0.014	0.018
b	0.37	0.50	0.015	0.020
c	0.09	0.18	0.004	0.007
D	1.20	1.40	0.047	0.055
E	2.80	3.04	0.110	0.120
e	1.80	2.00	0.071	0.079
L	0.45	0.60	0.018	0.024
L1	0.10	0.30	0.004	0.012
H	2.10	2.64	0.083	0.104
theta	0°	8°	0°	8°
theta1	7°	11°	7°	11°
theta2	8°	12°	8°	12°
R	0.12	0.15	0.005	0.006

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