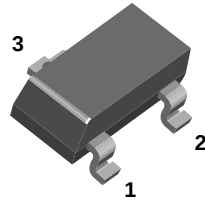
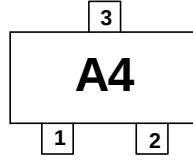




BAV70 / 74

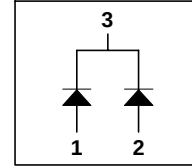


SOT-23



MARKING
BAV70 A4 BAV74 JA

Connection Diagram



Small Signal Diode

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	BAV70 70 BAV74 50	V 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	-55 to +150	°C
T _J	Operating Junction Temperature	150	°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

NOTES:

- 1) These ratings are based on a maximum junction temperature of 150 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	350	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	357	°C/W

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	BAV70 I _R = 100 μA BAV74 I _R = 100 μA	70 50		V V
V _F	Forward Voltage	BAV70 I _F = 1.0 mA I _F = 10 mA I _F = 50 mA BAV74 I _F = 150 mA I _F = 100 mA		715 855 1.0 1.25 1.0	mV mV V V V
I _R	Reverse Current	BAV70 V _R = 25 V, T _A = 150°C V _R = 70 V BAV74 V _R = 70 V, T _A = 150°C V _R = 50 V V _R = 50 V, T _A = 150°C		60 5.0 100 100 100	μA μA μA nA μA
C _T	Total Capacitance	BAV70 V _R = 0, f = 1.0 MHz BAV74 V _R = 0, f = 1.0 MHz		1.5 2.0	pF pF
t _{rr}	Reverse Recovery Time	BAV70 I _F = I _R = 10 mA, I _{RR} = 1.0 mA, R _L = 100Ω BAV74 I _F = I _R = 10 mA, I _{RR} = 1.0 mA, R _L = 100Ω		6.0 4.0	ns ns

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Definition of Terms

Datasheet Identification	Product Status	Definition
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