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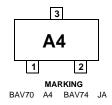
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#### **BAV70/74**





#### **Connection Diagram**



#### **Small Signal Diode**

### Absolute Maximum Ratings \* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	BAV70 BAV74	70 50	V V
I <sub>F(AV)</sub>	Average Rectified Forward Current		200	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond		1.0 2.0	A A
T <sub>STG</sub>	Storage Temperature Range		-55 to +150	°C
T <sub>J</sub>	Operating Junction Temperature		150	°C

<sup>\*</sup> These ratings are limiting values above which the serviceability of the diode may be impaired.

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

#### **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	350	mW
R <sub>e.IA</sub>	Thermal Resistance, Junction to Ambient	357	°C/W

#### Electrical Characteristics T<sub>A</sub>=25°C unless otherwise noted

Symbol	Parameter		Test Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	BAV70 BAV74	I <sub>R</sub> = 100μA I <sub>R</sub> = 5.0μA	75 50		V
V <sub>F</sub>	Forward Voltage	BAV70	I <sub>F</sub> = 1.0mA I <sub>F</sub> = 10mA I <sub>F</sub> = 50mA I <sub>F</sub> = 150mA I <sub>F</sub> = 100mA	- 00	715 855 1.0 1.25 1.0	mV mV V
I <sub>R</sub>	Reverse Leakage	BAV70	$V_R = 25V, T_A = 150^{\circ}C$ $V_R = 70V$ $V_R = 70V, T_A = 150^{\circ}C$ $V_R = 50V$ $V_R = 50V$ $V_R = 50V, T_A = 150^{\circ}C$		60 5.0 100 100	μΑ μΑ μΑ nA μΑ
C <sub>T</sub>	Total Capacitance	BAV70 BAV74	$V_R = 0V, f = 1.0MHz$ $V_R = 0V, f = 1.0MHz$		1.5 2.0	pF pF
t <sub>rr</sub>	Reverse Recovery Time	BAV70 BAV74	$I_F = I_R = 10 \text{mA}, I_{RR} = 1.0 \text{mA},$ $R_L = 100 \Omega$ $I_F = I_R = 10 \text{mA}, I_{RR} = 1.0 \text{mA},$ $R_L = 100 \Omega$		6.0 4.0	ns ns

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EnSigna™	i-Lo™	OCX™	RapidConfigure™	TruTranslation™
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Datasheet Identification	Product Status	Definition
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