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<u>Fairchild Semiconductor</u> <u>BAW62</u>

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Datasheet of BAW62 - DIODE GEN PURP 75V 300MA DO35

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



December 2004

BAW62

Small Signal Diode



DO-35

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

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum Repetitive Reverse Voltage	75	V	
I _{F(AV)}	Average Rectified Forward Current	300	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 4.0	A A	
T _{STG}	Storage Temperature Range	-65 to +200	°C	
T _J	Operating Junction Temperature	175	°C	

^{*} These ratings are limiting values above which the serviceability of the diode may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Unit
P_{D}	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics $T_C = 25$ °C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max	Units
V_R	Breakdown Voltage	I _R = 5μA	75		V
V _F	Forward Voltage	I _F = 5mA I _F = 100mA I _F = 100mA, T = 100°C	0.62	0.75 1.0 0.93	V V V
I _R	Reverse Leakage	$V_R = 20V$ $V_R = 20V$, $T_A = 150^{\circ}C$ $V_R = 50V$ $V_R = 75V$ $V_R = 75V$, $T_A = 150^{\circ}C$		25 50 200 5 100	nA μA nA μA μA
C _T	Total Capacitance	$V_R = 0, f = 1.0MHz$		2	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 10 \text{mA}, I_{rr} = 1 \text{mA}, R_L = 100 \Omega,$		4	ns

¹⁾ These ratings are based on a maximum junction temperature of 200 degrees C.

²⁾ These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.



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