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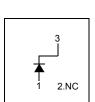
April 2008



BAS20 General Purpose High Voltage Diode







Connection Diagram

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

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	200	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		°C
TJ	Operating Junction Temperature	-55 to +150	°C

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

NOTES:

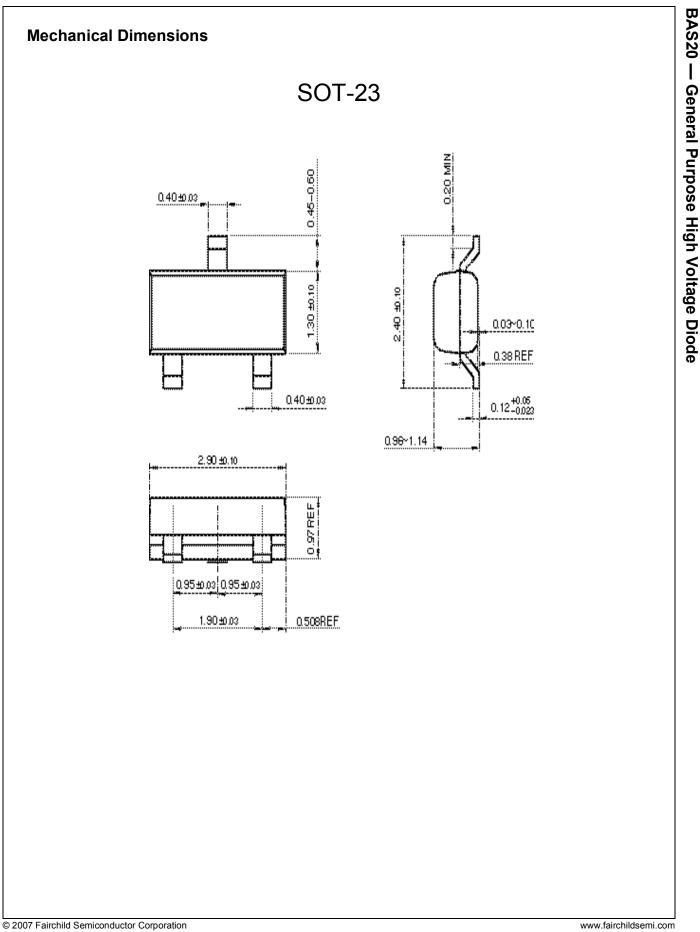
1) These ratings are based on a maximum junction temperature of 150 degrees C.
2) These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics

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

Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V _R	Breakdown Voltage	I _R = 100μA	200		V
V _F	Forward Voltage	I _F = 100mA I _F = 200mA		1.0 1.25	V V
I _R	Reverse Leakage	V _R =50V V _R =50V, T _A = 150°C		100 100	nA μA
C _T	Total Capacitance	V _R = 0V, f = 1.0MHz		5	pF
t _{rr}	Reverse Recovery Time	I _F = I _R =30mA, I _{RR} = 3.0mA, R _L = 100Ω		50	ns



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BAS20 Rev. 1.0.0



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