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## **BAX16**

### High Voltage General Purpose Diode



#### DO-35 Glass case COLOR BAND DENOTES CATHODE

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

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	150	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA
i <sub>f</sub>	Recurrent Peak Forward Current	600	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 s Pulse Width = 1.0 μs	1 4	A A
T <sub>STG</sub>	Storage Temperature Range	-65 to 200	°C
Tj	Operating Junction Temperature	175	°C

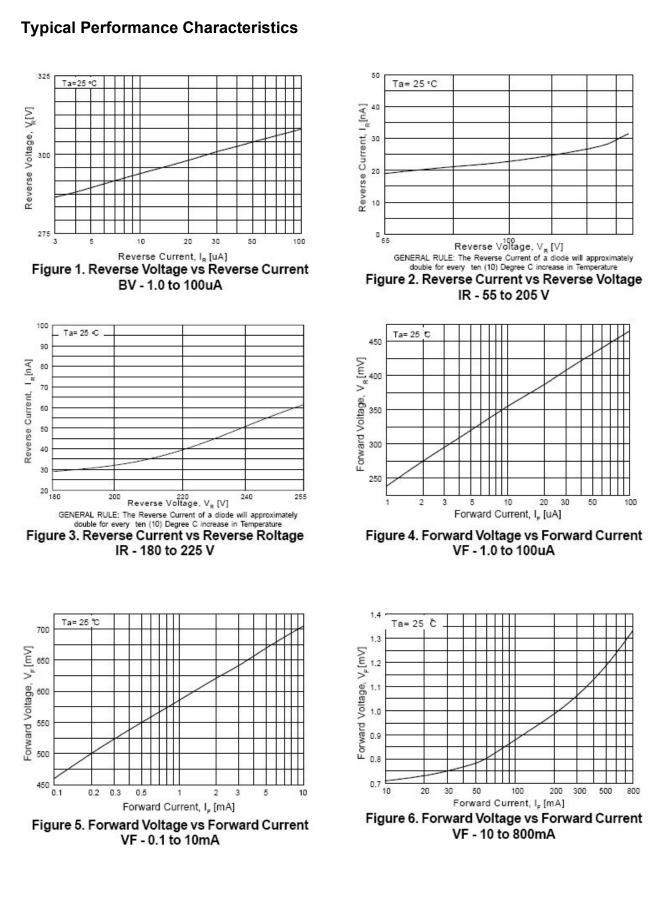
\* These ratings are limiting values above which the serviceability of the diode may be impaired.

Notes: 1) These ratings are based on a maximum junction temperature of 200degrees C. 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

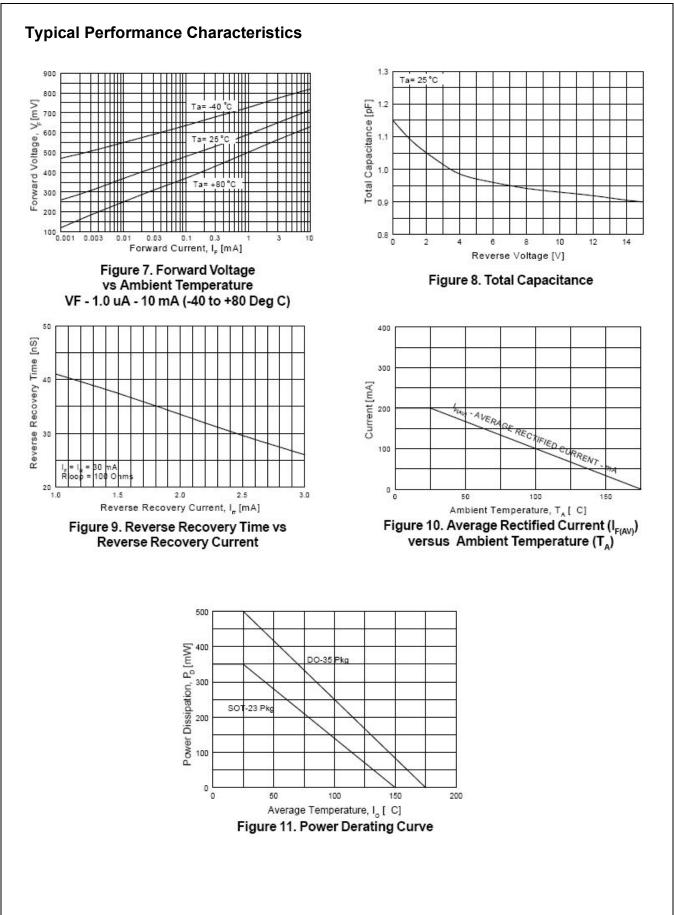
### Electrical Characteristics \* T<sub>a</sub> = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100μA	180		V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 1.0mA		0.65	V
V <sub>FP</sub>	Forward Voltage Pulse Width = 300µs	I <sub>F</sub> = 100mA I <sub>F</sub> = 200mA		1.3 1.5	
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 50V V <sub>R</sub> = 50V, T <sub>A</sub> = 150°C V <sub>R</sub> = 150V V <sub>R</sub> = 150V, T <sub>A</sub> = 150°C		25 25 100 100	nA μA nA μA
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = 30mA, I <sub>R</sub> = 30mA, I <sub>rr</sub> = 1.0mA, R <sub>L</sub> = 100Ω		120	ns

April 2008



BAX16 — High Voltage General Purpose Diode





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