

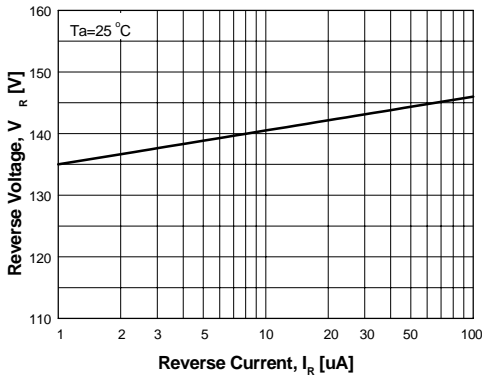


**Electrical Characteristics\*** T<sub>A</sub>=25°C unless otherwise noted

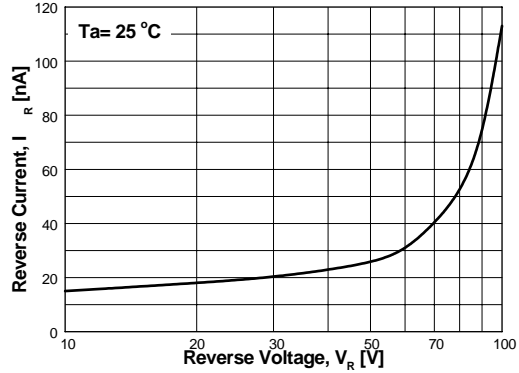
Symbol	Parameter	Test Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100μA I <sub>R</sub> = 5.0μA	100 75		V V
V <sub>F</sub>	Forward Voltage	1N914B/4448 I <sub>F</sub> = 5.0mA 1N916B I <sub>F</sub> = 5.0mA 1N914/916/4148 I <sub>F</sub> = 10mA 1N914A/916A I <sub>F</sub> = 20mA 1N916B I <sub>F</sub> = 20mA 1N914B/4448 I <sub>F</sub> = 100mA	620 630	720 730 1.0 1.0 1.0 1.0	mV mV V V V V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 20V V <sub>R</sub> = 20V, T <sub>A</sub> = 150°C V <sub>R</sub> = 75V		25 50 5.0	nA μA μA
C <sub>T</sub>	Total Capacitance	V <sub>R</sub> = 0, f = 1.0MHz V <sub>R</sub> = 0, f = 1.0MHz		2.0 4.0	pF pF
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = 10mA, V <sub>R</sub> = 6.0V (600mA) I <sub>rr</sub> = 1.0mA, R <sub>L</sub> = 100Ω		4.0	ns

\* Non-recurrent square wave PW = 8.3ms

**Typical Characteristics**

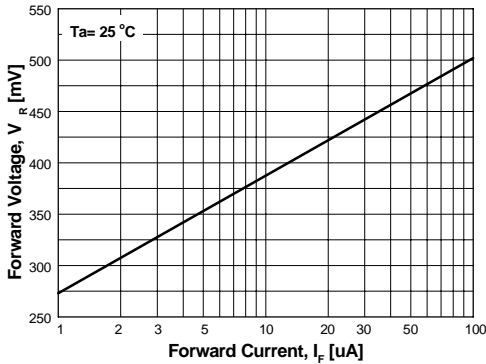


**Figure 1. Reverse Voltage vs Reverse Current**  
BV - 1.0 to 100μA

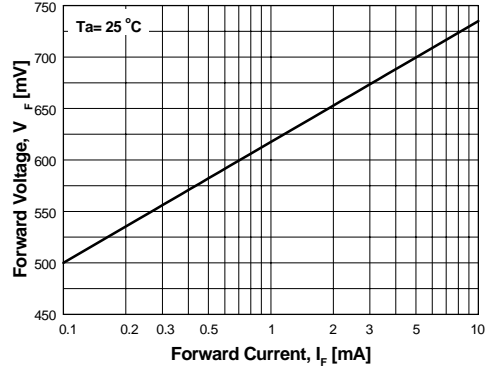


**Figure 2. Reverse Current vs Reverse Voltage**  
IR - 10 to 100V

GENERAL RULE: The Reverse Current of a diode will approximately double for every ten (10) Degree C increase in Temperature



**Figure 3. Forward Voltage vs Forward Current**  
VF - 1 to 100μA



**Figure 4. Forward Voltage vs Forward Current**  
VF - 0.1 to 10mA

Typical Characteristics (Continued)

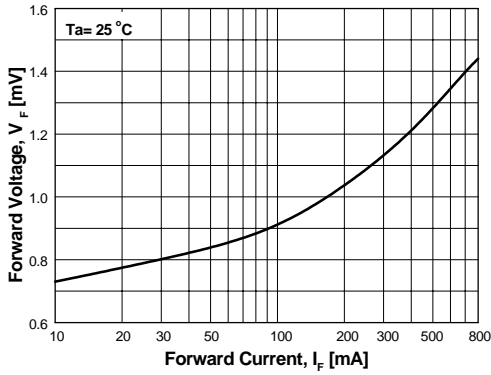


Figure 5. Forward Voltage vs Forward Current  
VF - 10 to 800mA

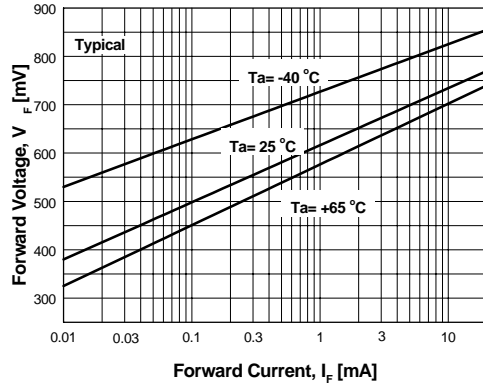


Figure 6. Forward Voltage vs Ambient Temperature  
VF - 0.01 - 20 mA (- 40 to +65°C)

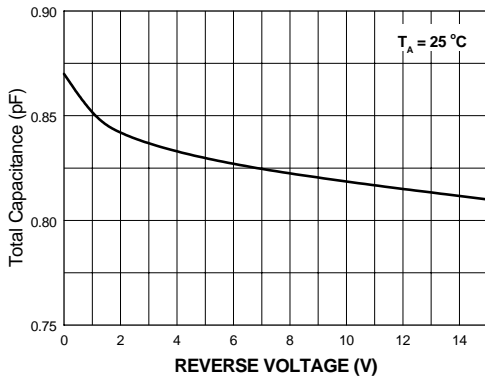
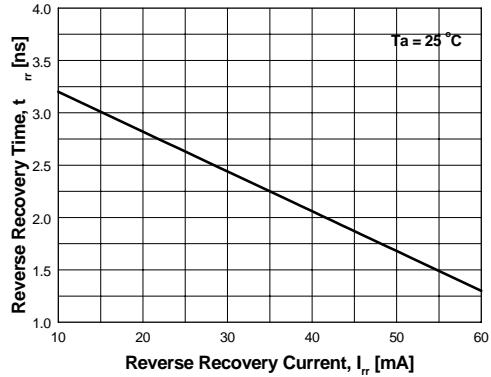


Figure 7. Total Capacitance



IF = 10mA , IRR = 1.0 mA , Rloop = 100 Ohms  
Figure 8. Reverse Recovery Time vs  
Reverse Recovery Current

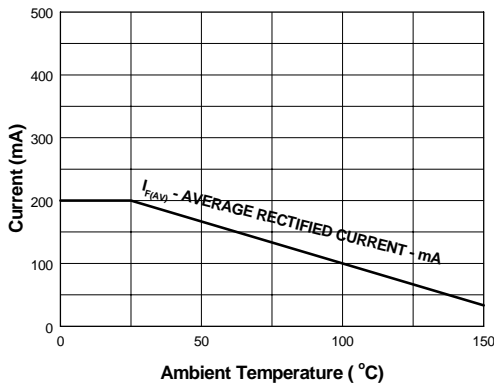


Figure 9. Average Rectified Current ( $I_{F(AV)}$ )  
vs Ambient Temperature ( $T_A$ )

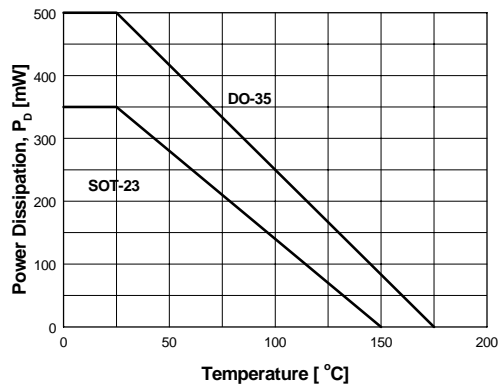


Figure 10. Power Derating Curve

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FAST®	MicroFET™	QS™	TinyBuck™	
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