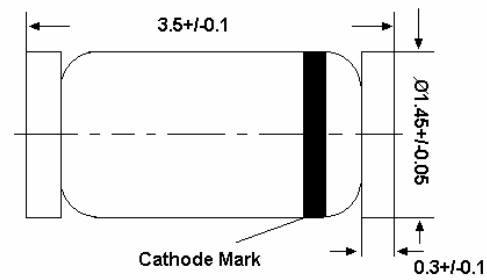


LL916, LL916A, LL916B

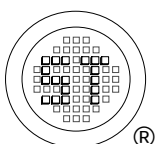
HIGH CONDUCTANCE FAST DIODES



Glass case MiniMELF
Dimensions in mm

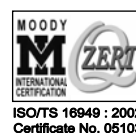
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_O	200	mA
DC Forward Current	I_F	300	mA
Recurrent Peak Forward Current	i_f	400	mA
Peak Forward Surge Current Pulse width = 1 second Pulse width = 1 microsecond	$i_{f(\text{surge})}$ $i_{f(\text{surge})}$	1 4	A A
Total Device Dissipation Derate above 25°C	P_D	500 3.33	mW mW/ $^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_S	-65 to +200	$^\circ\text{C}$



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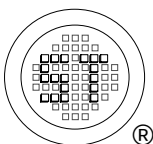
LL916, LL916A, LL916B

Characteristics at $T_A = 25^\circ\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage					
at $I_R = 100\mu\text{A}$	B_V	100	-	-	V
at $I_R = 5\mu\text{A}$	B_V	75	-	-	V
Reverse Current					
at $V_R = 20\text{V}$	I_R	-	-	25	nA
at $V_R = 20\text{V}$, $T_A = 150^\circ\text{C}$	I_R	-	-	50	μA
at $V_R = 75\text{V}$	I_R	-	-	5	μA
Forward Voltage					
at $I_F = 5\text{mA}$ LL916B	V_F	630	-	730	mV
at $I_F = 10\text{mA}$ LL916	V_F	-	-	1	V
at $I_F = 20\text{mA}$ LL916A	V_F	-	-	1	V
at $I_F = 30\text{mA}$ LL916B	V_F	-	-	1	V
Diode Capacitance					
at $f = 1\text{MHz}$	C_O	-	-	2	pF
Reverse Recovery Time					
at $I_F = 10\text{mA}$, $V_R = 6\text{V}(60\text{mA})$, $I_{RR} = 1.0\text{mA}$, $R_L = 100\Omega$	t_{rr}	-	-	4	ns

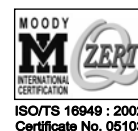
Notes:(1) These ratings are based on a maximum junction temperature of 200 degrees C.

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



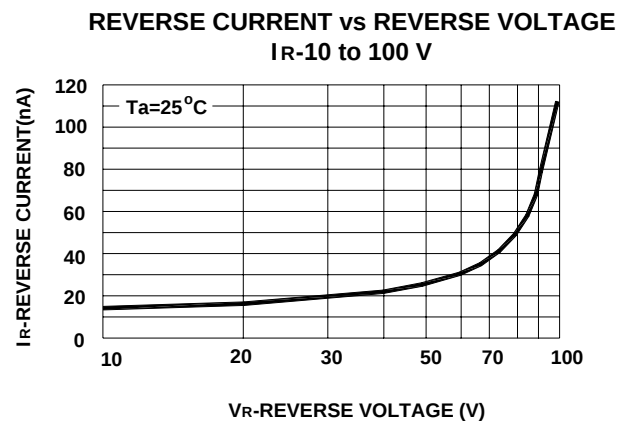
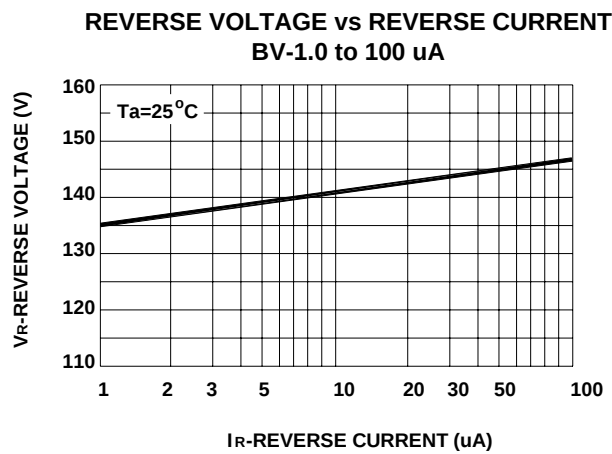
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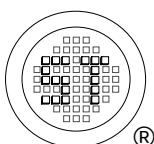
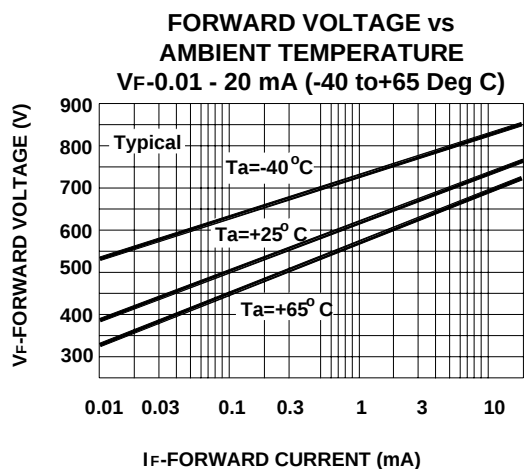
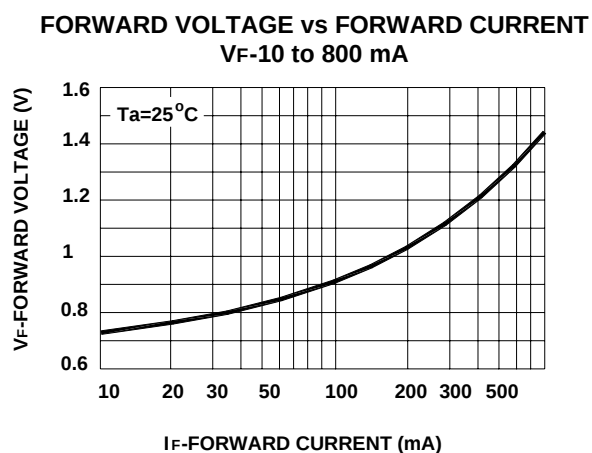
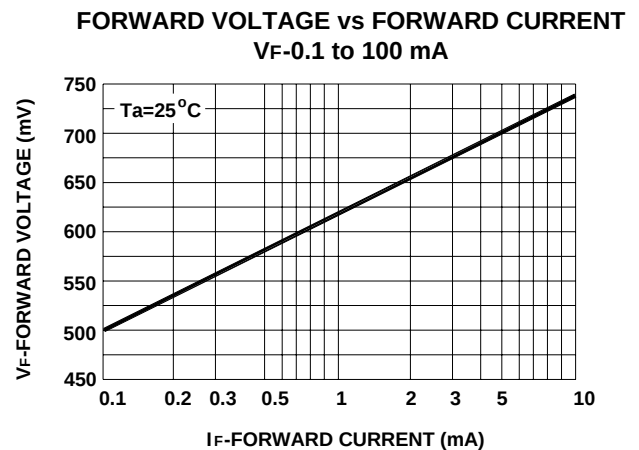
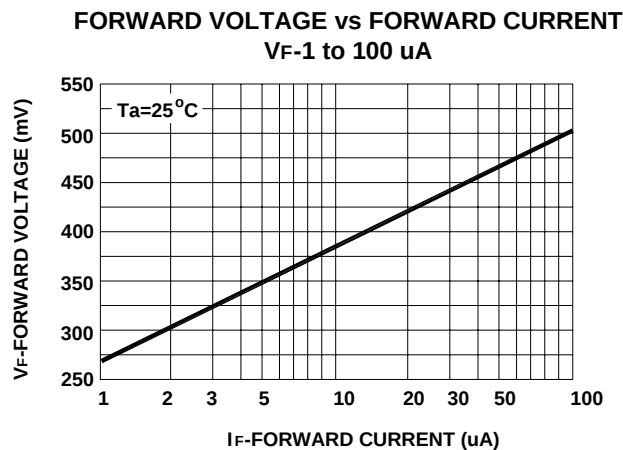


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Typical Characteristics

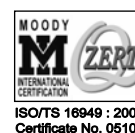


GENERAL RULE: The Reverse Current of a diode will approximately double for every ten (10) Degree C increase in Temperature



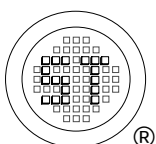
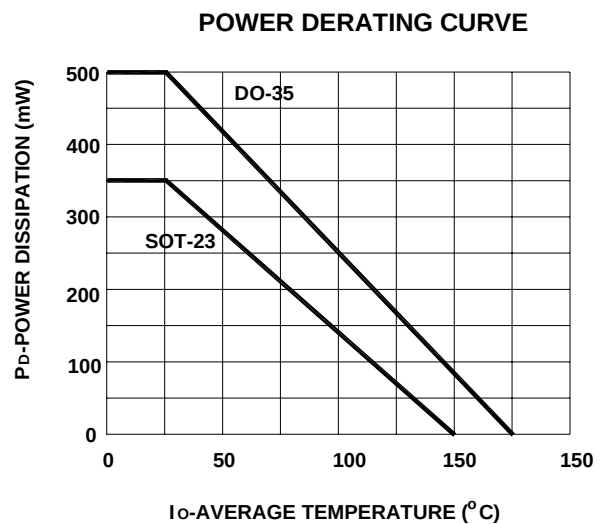
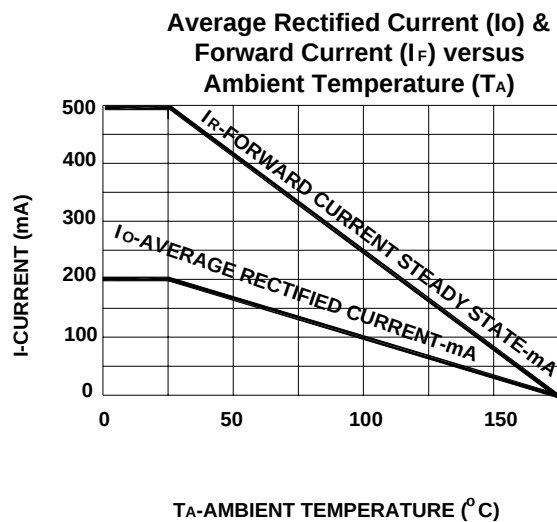
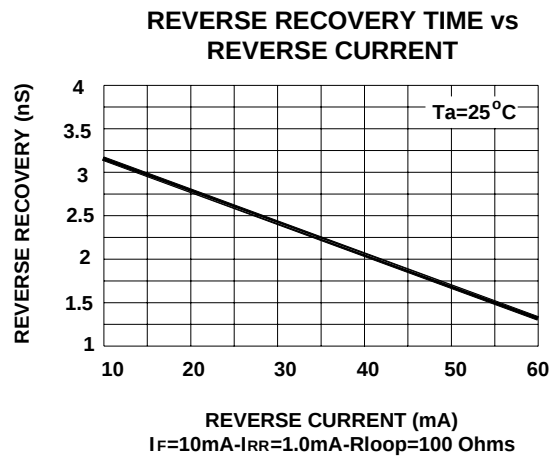
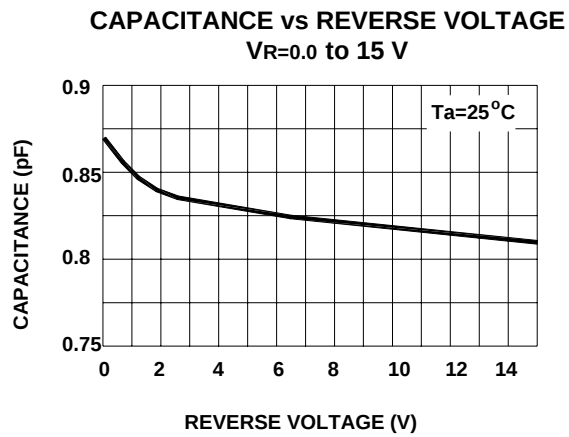
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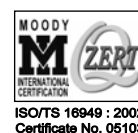
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Typical Characteristics



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