1N/FDLL 914/A/B / 916/A/B / 4148 / 4448 **Small Signal Diode**

DO-35 Cathode is denoted with a black band

Absolute Maximum	Ratings*	T_=25°C unless otherwise noted
	naunys	I = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	100	V
Io	Average Rectified Forward Current	200	mA
I _F	DC Forward Current	300	mA
i _f	Recurrent Peak Forward Current	400	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 4.0	AA
T _{STG}	Storage Temperature Range	-65 to + 175	°C
TJ	Operating Junction Tempera	-65 to + 175	°C

LL-34

THE PLACEMENT OF THE EXPANSION GAP HAS NO RELATIONSHIP TO THE LOCATION OF THE CATHODE TERMINAL

NOTES:

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

Thermal Characteristics

Symbol	Parameter	Max.	Units	
Cymbol	i arameter	1N/FDLL 914/A/B / 4148 / 4448		
P _D	Power Dissipation	500	mW	
R_{\thetaJA}	Thermal Resistance, Junction to Ambient	300	°C/W	

_			
LL-34 COI	OR BAND N		\backslash
DEVICE	1ST BAND	2ND BAND	
FDLL914	BLACK	BROWN	
FDLL914A	BLACK	GRAY	
FDLL914B	BROWN	BLACK	
FDLL916	BLACK	RED	
FDLL916A	BLACK	WHITE	
FDLL916B	BROWN	BROWN	
FDLL4148	BLACK	BROWN	
FDLL4448	BROWN	BLACK	

January 2007

-1st band denotes cathode terminal and has wider width

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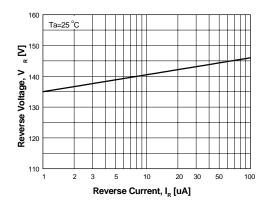


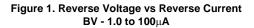
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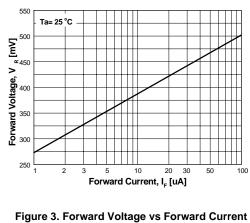
Symbol	Parame	ter	Test Conditions	Min.	Max.	Units
V _R	Breakdown Voltage		I _R = 100μA I _R = 5.0μA	100 75		V V
V _F	Forward Voltage	1N914/916/4148 1N914A/916A	$I_F = 5.0mA$ $I_F = 10mA$ $I_F = 20mA$ $I_F = 20mA$	620 630	720 730 1.0 1.0 1.0 1.0	mV mV V V V
I _R	Reverse Leakage		V _R = 20V V _R = 20V, T _A = 150°C V _R = 75V		25 50 5.0	nA μA μA
C _T	Total Capacitance 1N916A/B/4448 1N914A/B/4148		V _R = 0, f = 1.0MHz V _R = 0, f = 1.0MHz		2.0 4.0	pF pF
t _{rr}	Reverse Recovery Time		$I_F = 10mA, V_R = 6.0V (600mA)$ $I_{rr} = 1.0mA, R_L = 100\Omega$		4.0	ns

* Non-recurrent square wave PW = 8.3ms

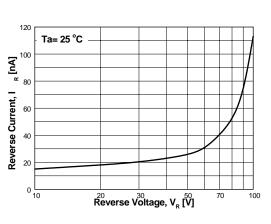
Typical Characteristics



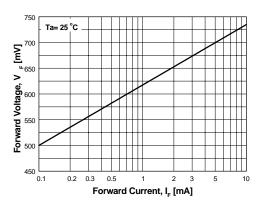


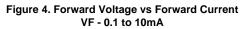


VF - 1 to 100μA

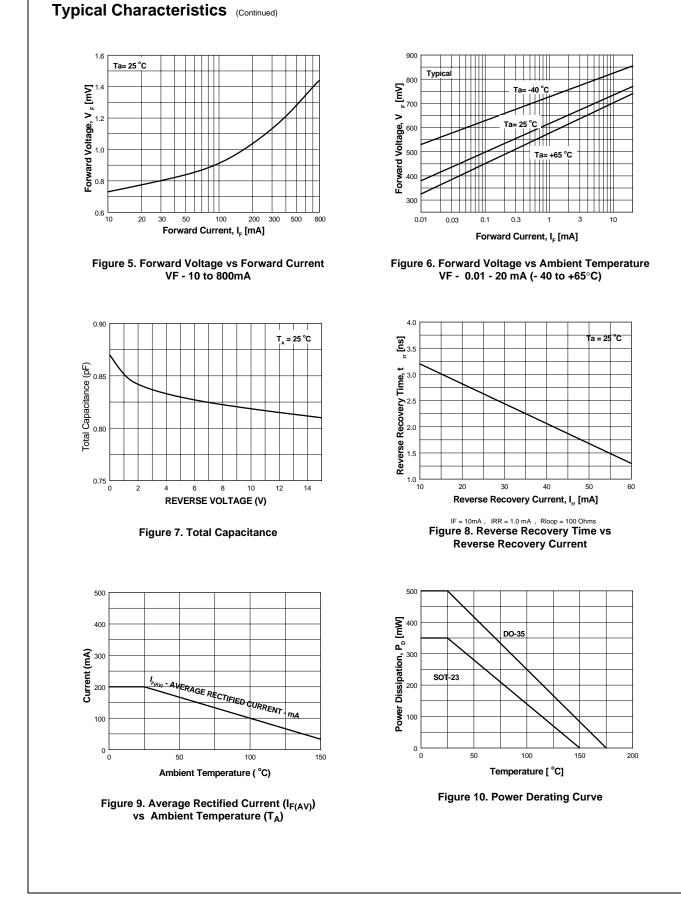








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1N/FDLL 914/A/B / 916/A/B / 4148 / 4448 Small Signal Diode

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