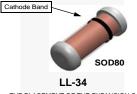
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April 2013



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





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

(LL-34 COI	LL-34 COLOR BAND MARKING		
	DEVICE	1ST BAND		
	FDLL914 FDLL914A FDLL914B FDLL4148 FDLL4448	BLACK BLACK BLACK BLACK BLACK		
	-1st band denotes cathode terminal			

Absolute Maximum Ratings⁽¹⁾

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Units	
V _{RRM}	Maximum Repetitive Reverse Voltage	100	V	
Ι _Ο	Average Rectified Forward Current	200	mA	
١ _F	DC Forward Current	300	mA	
۱ _f	Recurrent Peak Forward Current		400	mA
	Non-repetitive Peak Forward Surge Current	Pulse Width = 1.0 s	1.0	Α
FSM	Non-repetitive reak rotward Surge Current	Pulse Width = 1.0 µs	4.0	Α
T _{STG}	Storage Temperature Range	-65 to +200	°C	
ТJ	Operating Junction Temperature	175	°C	

Note:

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

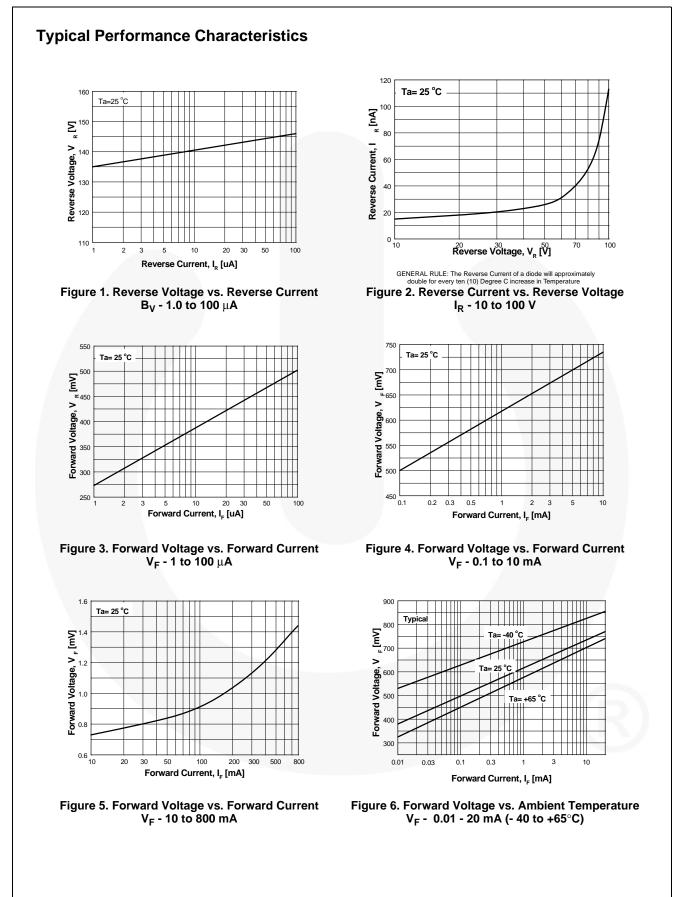
Thermal Characteristics

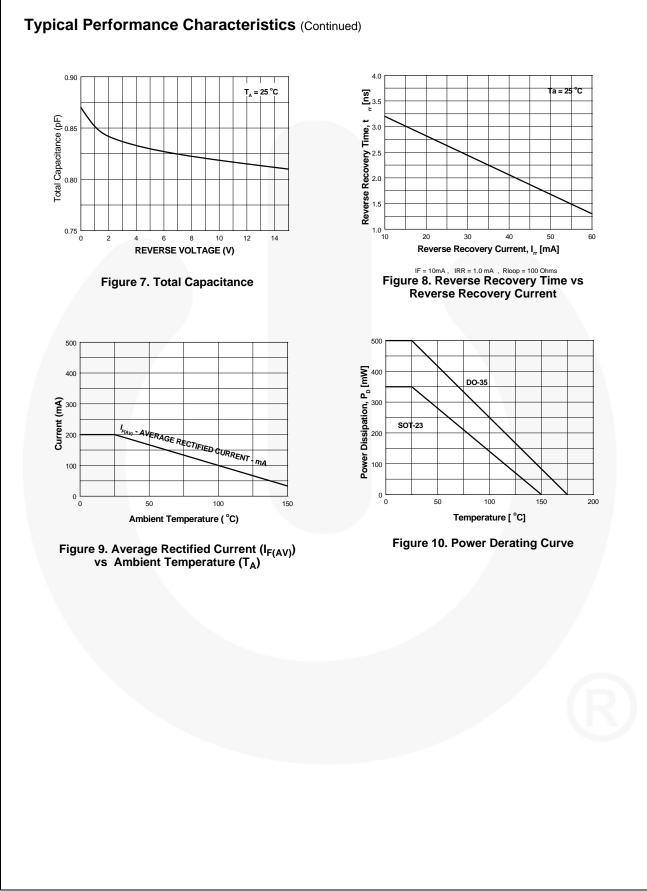
Symbol	Parameter	Max. 1N/FDLL 914/A/B / 4148 / 4448	Units
P _D	Power Dissipation	500	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Symbol	Parameter		Test Conditions	Min.	Max.	Units
M			I _R = 100 μA	100		V
V _R	Breakdown Voltage		I _R = 5.0 μA	75		V
		1N914B/4448	I _F = 5.0 mA	0.62	0.72	V
	ForwardVoltage	1N916B	I _F = 5.0 mA	0.63	0.73	V
V		1N914 / 916 / 4148	I _F = 10 mA		1.0	V
V_{F}		1N914A/916A	I _F = 20 mA		1.0	V
		1N916B	I _F = 20 mA		1.0	V
		1N914B / 4448	I _F = 100 mA		1.0	V
	Reverse Leakage		V _R = 20 V		0.025	μA
I _R			V _R = 20 V, T _A = 150°C		50	μA
			V _R = 75 V		5.0	μA
6	TotalCapacitance	1N916A/B/4448	V _R = 0, f = 1.0 MHz		2.0	pF
С _Т	TotalCapacitatice	1N914A/B/4148	V _R = 0, f = 1.0 MHz		4.0	pF
t _{rr}	Reverse Recovery Time		$I_F = 10$ mA, $V_R = 6.0$ V (600 mA) $I_{rr} = 1.0$ mA, $R_L = 100$ Ω		4.0	ns

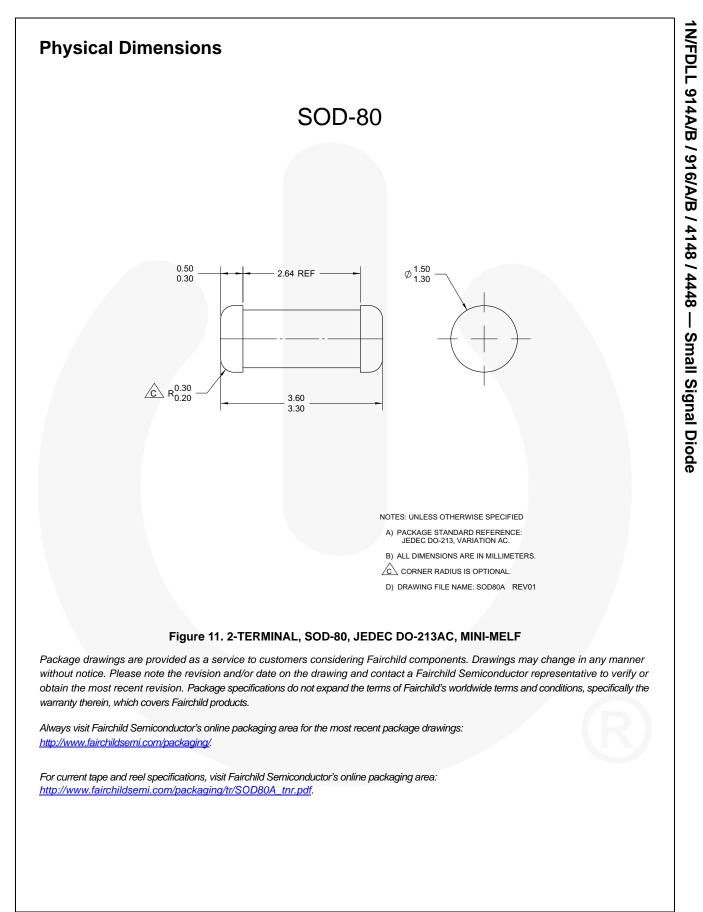
Note:

2. Non-recurrent square wave P_W = 8.3 ms.





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



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