

Is Now Part of

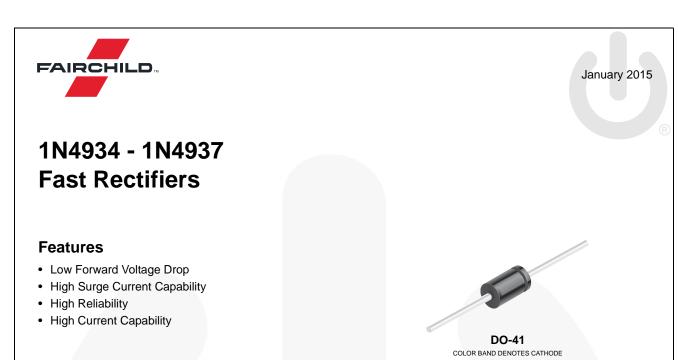


# **ON Semiconductor**®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (\_), the underscore (\_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (\_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at <a href="mailto:www.onsemi.com">www.onsemi.com</a>. Please email any questions regarding the system integration to <a href="mailto:Fairchild\_questions@onsemi.com">Fairchild\_questions@onsemi.com</a>.

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## **Ordering Information**

Part Number	Top Mark	Package	Packing Method
1N4934	1N4934	DO-204AL (DO-41)	Tape and Reel
1N4935	1N4935	DO-204AL (DO-41)	Tape and Reel
1N4936	1N4936	DO-204AL (DO-41)	Tape and Reel
1N4937	1N4937	DO-204AL (DO-41)	Tape and Reel

### **Absolute Maximum Ratings**

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				Unit
Symbol	i alameter	1N4934	1N4935	1N4936	1N4937	Unit
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	100	200	400	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current .375 " Lead Length at $T_A = 50^{\circ}C$	1.0				А
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30				А
T <sub>STG</sub>	Storage Temperature Range	-50 to +150				°C
Τ <sub>J</sub>	Operating Junction Temperature	-50 to +150			°C	

## **Thermal Characteristics**

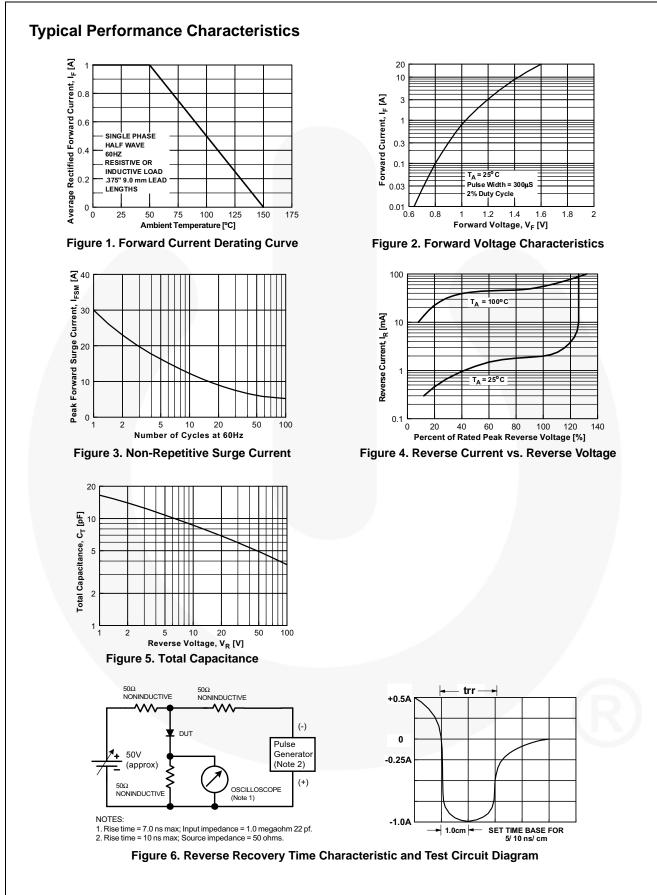
Values are at  $T_{A}$  = 25°C unless otherwise noted.

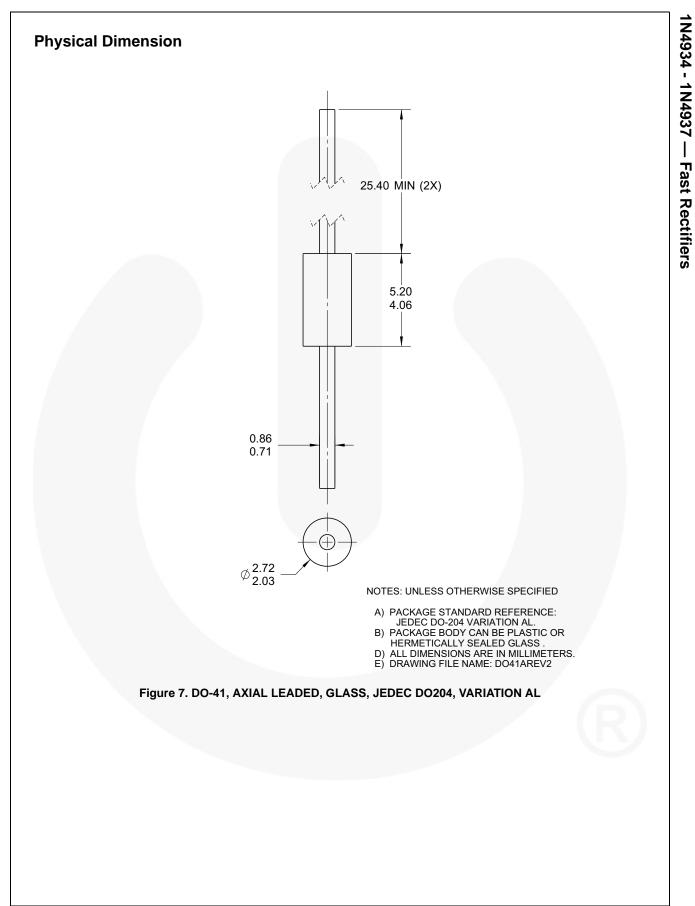
Symbol	Parameter	Value	Unit
PD	Power Dissipation	2.5	W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient	50	°C/W

## **Electrical Characteristics**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

Symbol	Parameter	Conditions	Value				Unit
Symbol			1N4934	1N4935	1N4936	1N4937	Unit
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 1.0 A		1	.2		V
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, I <sub>rr</sub> = 0.25 A		1	50		ns
I <sub>R</sub> Reverse Current at Rated V <sub>R</sub>		$T_A = 25^{\circ}C$		5	.0		μA
		T <sub>A</sub> = 125°C	100			μΑ	
C <sub>T</sub>	Total Capacitance	V <sub>R</sub> = 4.0 V, f = 1.0 MHz		1	2		pF





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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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