

• High current capability.

DO-41 COLOR BAND DENOTES CATHODE

Fast Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter		Units				
		4933	4934	4935	4936	4937	ĺ
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	V
$I_{F(AV)}$	Average Rectified Forward Current, .375 " lead length @ $T_A = 50^{\circ}C$	1.0					A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30					А
T _{stg}	Storage Temperature Range	-50 to +150					°C
TJ	Operating Junction Temperature	-50 to +150				°C	

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

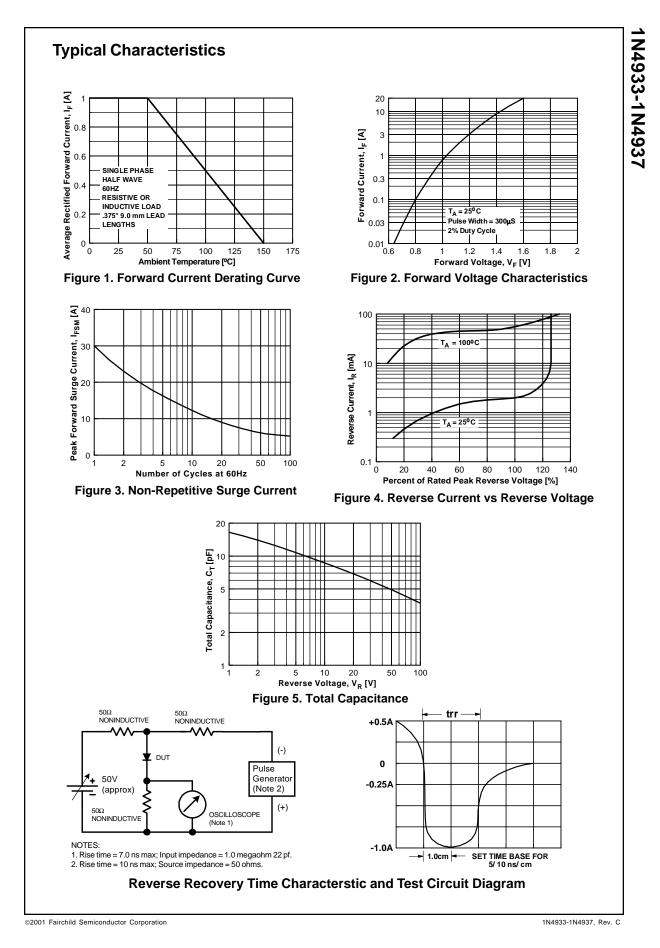
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	2.5	W
$R_{_{ ext{ hetaJA}}}$	Thermal Resistance, Junction to Ambient	50	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Units				
		4933	4934	4935	4936	4937	
V _F	Forward Voltage @ 1.0 A	1.2					V
t _{rr}	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_R = 0.25 \text{ A}$	150					ns
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 100				μΑ μΑ	
C _T	Total Capacitance $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	12				pF	

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Product Status	Definition
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First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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