

Symbol	Parameter	Value							Units		
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
V_{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ $T_A = 75^{\circ}C$	3.0				A					
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200				A					
T _{stg}	Storage Temperature Range	-55 to +150					°C				
TJ	Operating Junction Temperature	-55 to +150				°C					

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

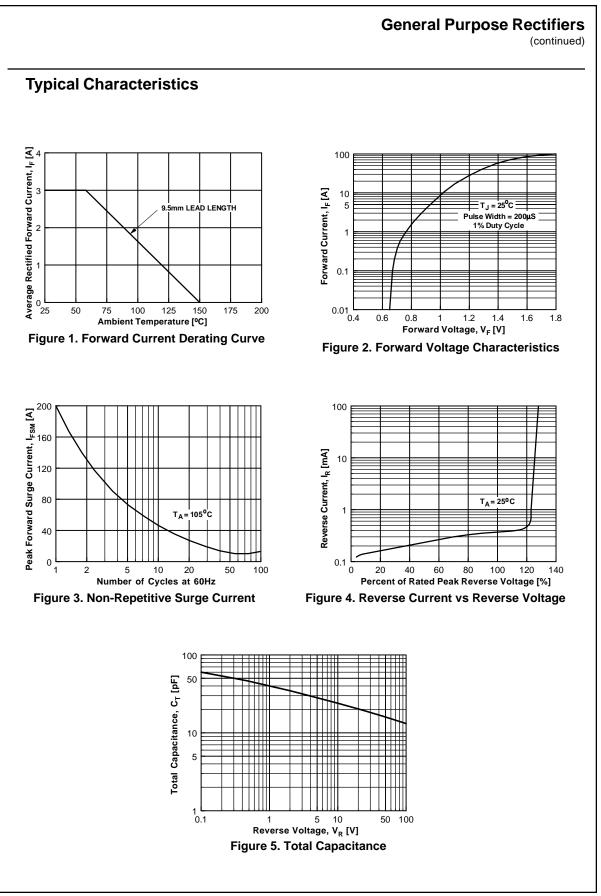
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	6.25	W
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	20	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter Device				•		Units				
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
V _F	Forward Voltage @ 3.0 A	1.2			V						
l _{rr}	Maximum Full Load Reverse Current, Full Cycle $T_A = 105^{\circ}C$	0.5			mA						
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500			μΑ μΑ						
C _T	Toatal Capacitance $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	30			pF						

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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Preliminary	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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