

1N5391 - 1N5399

Features

- 1.5 ampere operation at T_A = 70°C with no thermal runaway.
- High current capability.
- Low leakage.



General Purpose Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value					Units				
		5391	5392	5393	5394	5395	5396	5397	5398	5399	
V_{RRM}	Peak Repetitive Reverse Voltage	ak Repetitive Reverse Voltage 50 100 200 300 400 500 600 800 1000			1000	V					
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ T _A = 75°C	1.5					А				
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	50			А						
T _{stg}	Storage Temperature Range	rage Temperature Range -55 to +150			°C						
T _J	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	4.8	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	26	°C/W

Electrical Characteristics $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Device					Units				
		5391	5392	5393	5394	5395	5396	5397	5398	5399	
V_{F}	Forward Voltage @ 1.5 A	1.4									V
I _R	Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$			5.0 300							μA μA
Ст	Total Capacitance $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$ 25					pF					

General Purpose Rectifiers

(continued)

Typical Characteristics

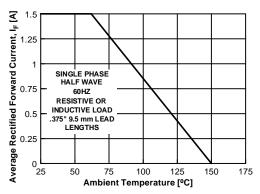


Figure 1. Forward Current Derating Curve

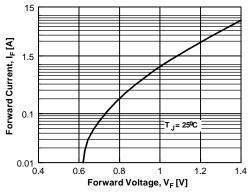


Figure 2. Forward Voltage Characteristics

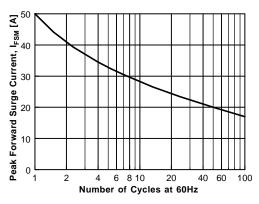


Figure 3. Non-Repetitive Surge Current

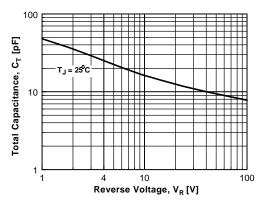


Figure 4. Total Capacitance

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