

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	50	100	200	300	400	500	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ T _A = 75°C	1.5				Α					
I _{FSM}	Non-repetitive Peak Forward Surge Current 50 8.3 ms Single Half-Sine-Wave				А						
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	4.8	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	26	°C/W

Electrical Characteristics $T_A = 25^{\circ}C$ 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 $T_A = 25$ °C $T_A = 100$ °C	5.0 300					μA μA				
Ст	Total Capacitance V _R = 4.0 V, f = 1.0 MHz	25					pF				

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General Purpose Rectifiers

(continued)

Typical Characteristics

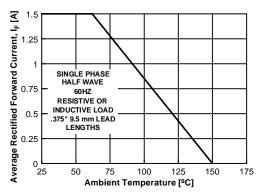


Figure 1. Forward Current Derating Curve

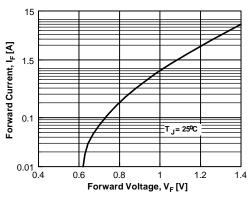


Figure 2. Forward Voltage Characteristics

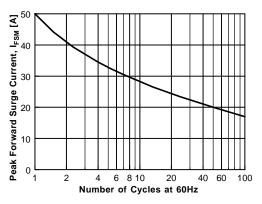


Figure 3. Non-Repetitive Surge Current

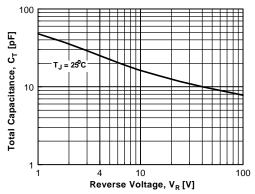


Figure 4. Total Capacitance

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