imall

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1N5391 - 1N5399 General Purpose Rectifiers

Features

- 1.5 ampere operation at $T_A = 70^{\circ}C$ with no thermal runaway.
- High current capability.
- · Low leakage.



DO-15 Color Band Denotes Cathode

Absolute Maximum Ratings * $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value								Units
Symbol		5391	5392	5393	5394	5395	5396	5397	5398	5399
V _{RRM}	Peak Repetitive Reverse Voltage	50 100 200 30		300	400	500	600	800	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					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		
PD	Power Dissipation	4.8	W		
$R_{ ext{ heta}JL}$	Thermal Resistance, Junction to Lead *	26	°C/W		

* Mounted on 0.375" (9.5mm) PCB

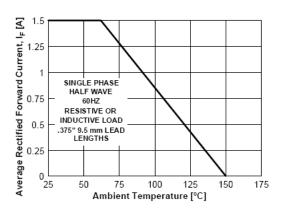
Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value									Units
		5391	5392	5393	5394	5395	5396	5397	5398	5399	Onits
V _F	Forward Voltage @1.5A	1.4				V					
I _R	Reverse Leakage @rated V _R T _A =25°C	5.0			μA						
	T _A =100°C		300								μA
CT	Total Capacitance V _R =4.0 V, f=1.0MHz	25			pF						

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1N5391 - 1N5399 — General Purpose Rectifiers

Typical Performance Characteristics



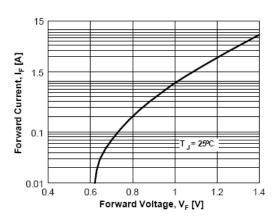


Figure 1. Forward Current Derating Curve

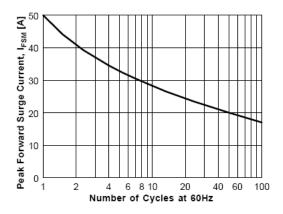


Figure 3. Non-Repetitive Surge Current

Figure 2. Forward Voltage Characteristics

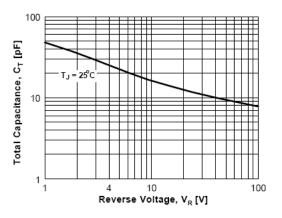
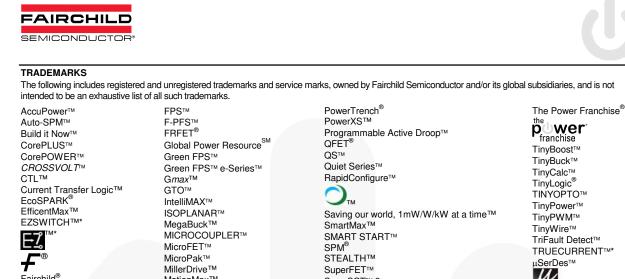


Figure 4. Total Capacitance



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