

# 1N5391 - 1N5399

## Features

- 1.5 ampere operation at T<sub>A</sub> = 70°C with no thermal runaway.
- High current capability.
- · Low leakage.



DO-15 COLOR BAND DENOTES CATHODE

# **General Purpose Rectifiers**

## Absolute Maximum Ratings\*

General Purpose Rectifiers Absolute Maximum Ratings* T <sub>A</sub> = 25°C unless otherwise noted												
Symbol	Parameter		Value Units				Units					
			5391	53 <b>92</b>	5393	5394	5395	5396	5397	5398	5399	
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage		50	100	200	300	400	500	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, .375 " lead length @ T <sub>A</sub> = 75°C						1.5					А
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		50				A					
T <sub>stg</sub>	Storage Temperature Range		-55 to +150				°C					
TJ	Operating Junction Temperature		-55 to +150					°C				

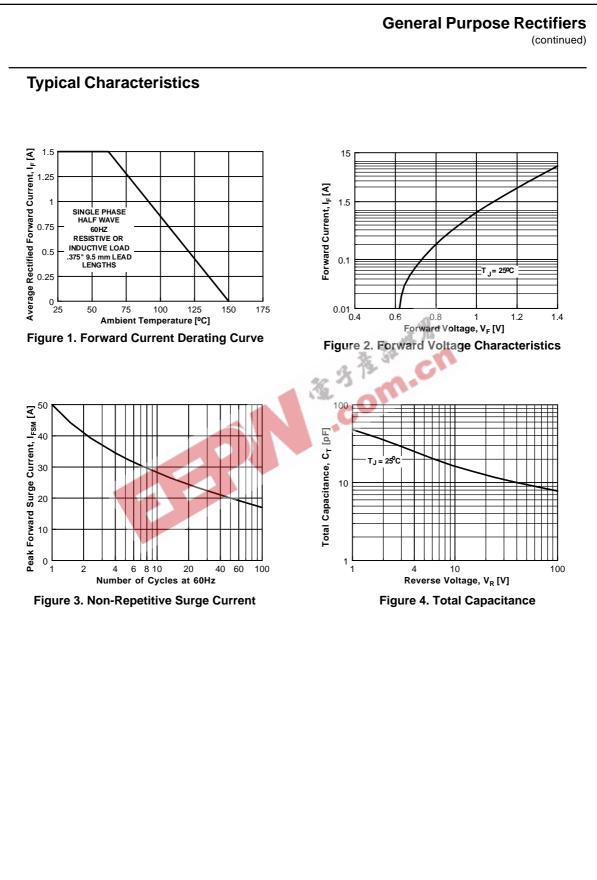
\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

# **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	4.8	W
$R_{_{\thetaJ}A}$	Thermal Resistance, Junction to Ambient	26	°C/W

# Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Device						Units			
		5391	5392	5393	5394	5395	5396	5397	5398	5399	
V <sub>F</sub>	Forward Voltage @ 1.5 A	1.4					V				
I <sub>R</sub>	Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 300					μΑ μΑ				
C <sub>T</sub>	Total Capacitance V <sub>R</sub> = 4.0 V, f = 1.0 MHz	25					pF				



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Product Status	Definition						
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