

### **Features**

- Low Current Leakage
- Low Forward Voltage
- High Current Capability
- Low Cost

### **Maximum Ratings**

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 26°C/W Junction To Lead

	-		-	
	Device	Maximum	Maximum	Maximum
Catalog	Marking Recurrent RMS		RMS	DC
Number	_	Peak	Voltage	Blocking
		Reverse	_	Voltage
		Voltage		Ũ
1N5391		50V	35V	50V
1N5392		100V	70V	100V
1N5393		200V	140V	200V
1N5394		300V	210V	300V
1N5395		400V	280V	400V
1N5396		500V	350V	500V
1N5397		600V	420V	600V
1N5398		800V	560V	800V
1N5399		1000V	700V	1000V

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.5A	T <sub>A</sub> = 70°C
Peak Forward Surge Current	I <sub>FSM</sub>	50A	8.3ms, half sine**
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 1.5A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 50μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C
Typical Junction Capacitance	CJ	20pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

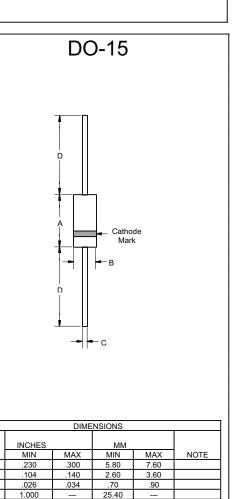
\*Pulse test: Pulse width 300 µsec, Duty cycle 1%

\*\*8.3ms single half-wave superimposed on rated load(JEDEC method) at Ta=75 deg C.

# 1N5391 THRU

## 1N5399

## 1.5 Amp Rectifier 50 - 1000 Volts



东莞市佑风微电子有限公司 DONGGUAN YOU FENG WEI ELECTRONICS CO., LTD

DIM

А

В

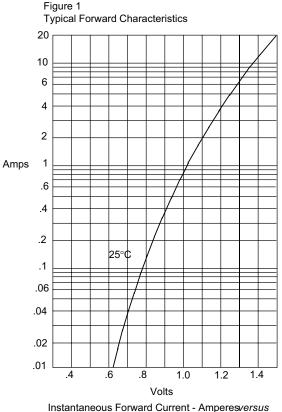
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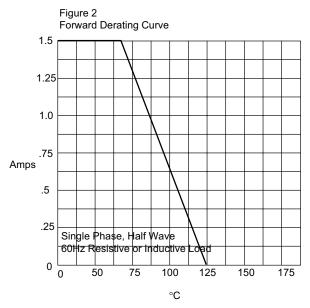
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#### 1N5391 thru 1N5399



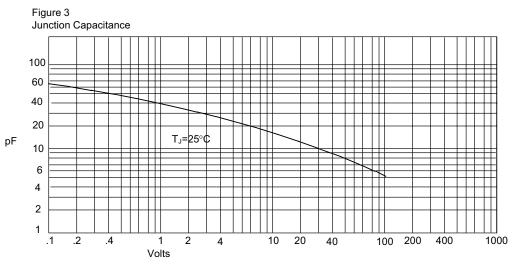
Instantaneous Forward Voltage - Volts





Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $\ -^{\circ}C$ 

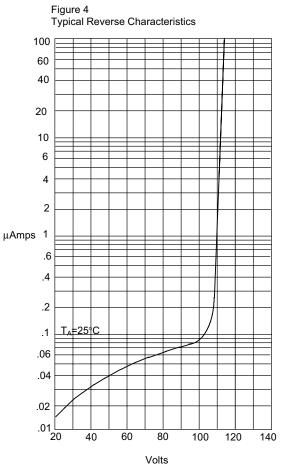
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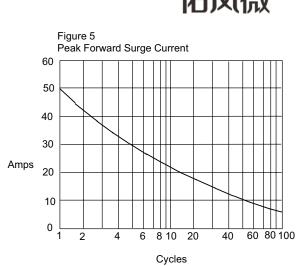


Junction Capacitance - pF*versus* Reverse Voltage - Volts

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#### 1N5391 thru 1N5399





Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



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