

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 1N5820 **THRU** 1N5822

Features

- Low Forward Voltage Drop
- **High Current Capability**
- High Surge Current Capability Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Maximum Thermal Resistance; 28 °C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5820	1N5820	20V	14V	20V
1N5821	1N5821	30V	21V	30V
1N5822	1N5822	40V	28V	40V

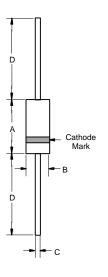
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T _A = 85°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1N5820 1N5821 1N5822	V_{F}	.475V .500V .525V	I _{FM} = 3.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2.0mA 20mA	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	C _J	200pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 1%

3 Amp Schottky **Barrier Rectifier** 20 - 40 Volts

DO-201AD



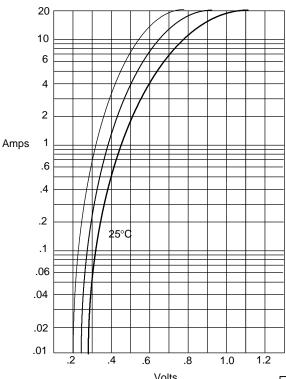
DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.287	.374	7.30	9.50				
В	.189	.208	4.80	5.30				
C	.048	.052	1.20	1.30				
D	1.000		25.40					

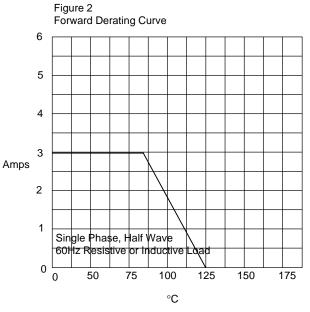
1N5820 thru 1N5822



Figure 1
Typical Forward Characteristics

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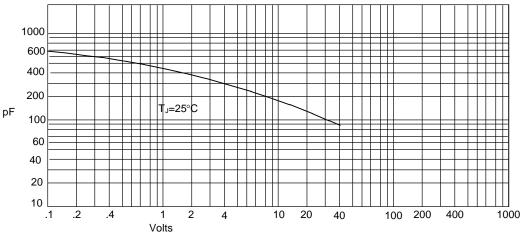




Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



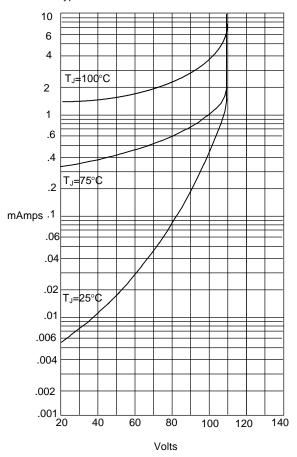


Junction Capacitance - pF*versus* Reverse Voltage - Volts

1N5820 thru 1N5822

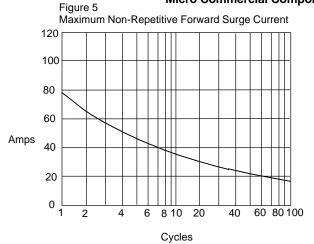
 $\cdot M \cdot C \cdot C \cdot$

Figure 4
Typical Reverse Characteristics



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

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



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