# General Purpose Rectifiers multicomp





#### **Features**

- 3 amperes operation at T<sub>A</sub> = 75°C with no thermal runaway
- High current capability
- · Low leakage

### Absolute Maximum Ratings\* TA = 25°C unless otherwise noted

Parameter	Symbol	Value	Units	
Average Rectified Current 0.375 Inches Lead Length at T <sub>A</sub> = 75°C	lo	3		
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)	i <sub>f</sub> (surge)	i <sub>f</sub> (surge) 200		
Total Device Dissipation Derate above 25°C	Po	6.25 50	W mW/°C	
Thermal Resistance, Junction to Ambient	RθJA	20	°C/W	
Storage Temperature Range	Тѕтс	-55 to +150	°C	
Operating Junction Temperature	TJ	-55 10 + 150		

<sup>\*</sup>These Ratings are Limiting Values above Which the Serviceability of Any Semiconductor Device may be Impaired.

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

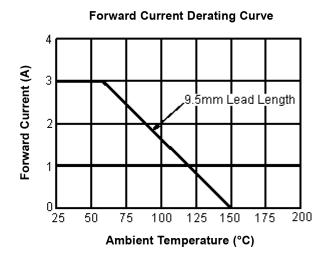
Parameter	1N5401+	1N5402+	1N5404+	1N5406+	1N5408+	Units
Peak Repetitive Reverse Voltage	100	200	400	600	1000	
Maximum RMS Voltage	70	140	280	420	700	V
DC Reverse Voltage (Rated V <sub>R</sub> )	100	200	400	600	1000	
Maximum Reverse Current at Rated V <sub>R</sub> T <sub>A</sub> = 25°C TA = 100°C			5 500			μA
Maximum Forward Voltage at 3 A	1.2				V	
Max. Full Load Reverse Current, Full Cycle T <sub>A</sub> = 105°C	0.5				mA	
Typical Junction Capacitance VR = 4 V, f = 1 MHz	30				pF	

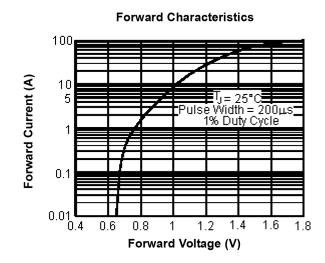


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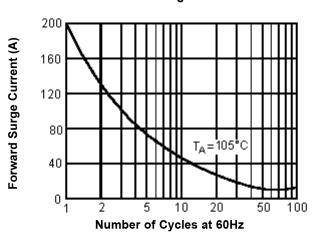


### **Ratings and Characteristic Curves**

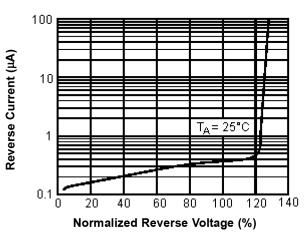




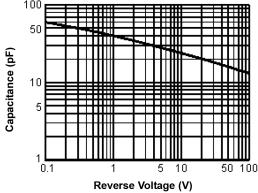
### **Overload Surge Current**



#### **Reverse Characteristics**









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#### **Dimensions:**

## DO-201AD 1 minimum (25.4) Dimensions in inches (mm) 0.375 (9.53) 0.285 (7.24) 0.21 (5.33) 0.19 (4.83) 0.052 (1.32) 0.048 (1.22)

**Colour Band Denotes Cathode** 

Dimensions: Inches (Millimetres)

#### **Part Number Table**

Description	Part Number
Diode, Standard, 3A, 100V	1N5401+
Diode, Standard, 3A, 200V	1N5402+
Diode, Standard, 3A, 400V	1N5404+
Diode, Standard, 3A, 600V	1N5406+
Diode, Standard, 3A, 1,000V	1N5408+

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