# General Purpose Rectifiers multicomp PRO





#### Features:

- Low forward voltage drop
- High current capability

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

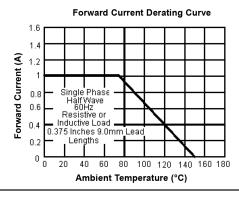
Parameter	Symbol	Value	Units	
Average Rectified Current 0.375 Inches Lead Length at T <sub>A</sub> = 75°C	lo			
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)	i <sub>f</sub> (surge)	i <sub>f</sub> (surge) 30		
Total Device Dissipation Derate above 25°C	PD	2.5 20	W mW/°C	
Thermal Resistance, Junction to Ambient	RөJA	50	°C/W	
Storage Temperature Range	TsTG -55 to +175		°C	
Operating Junction Temperature	TJ			

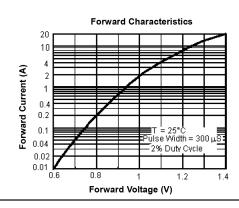
<sup>\*</sup>These Ratings are Limiting Values above Which the Serviceability of Any Semiconductor Device may be Impaired.

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

Parameter		Device						Unit
		4001+	4002+	4003+	4004+	4005+	4006+	Oilit
Peak Repetitive Reverse Voltage		50	100	200	400	600	1,000	
Maximum RMS Voltage		35	70	140	280	420	700	V
DC Reverse Voltage (Rated V <sub>R</sub> )		50	100	200	400	600	1,000	
Maximum Reverse Current at Rated VR	TA = 25°C TA = 100°C	5 500					μA	
Maximum Forward Voltage at 1A		1.1				V		
Maximum Full Load Reverse Current, Full Cycle TA = 75°C 30			μΑ					
Typical Junction Capacitance V <sub>R</sub> = 4V, f = 1 MHz				pF				

#### **Typical Characteristics**

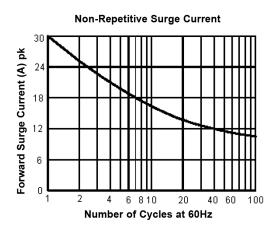


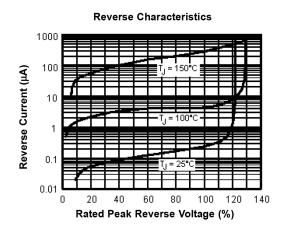


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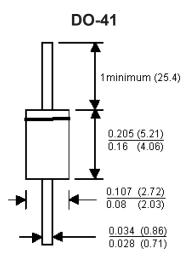


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#### **Dimensions:**



Dimensions: Inches (Millimetres)

#### **Part Number Table**

Description	Part Number		
Diode, Standard, 1A, 50V	1N4001+		
Diode, Standard, 1A, 100V	1N4002+		
Diode, Standard, 1A, 200V	1N4003+		
Diode, Standard, 1A, 400V	1N4004+		
Diode, Standard, 1A, 600V	1N4005+		
Diode, Standard, 1A, 800V	1N4006+		

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