General Purpose Rectifier Diodes





Features

- 3 amperes operation at T_A = 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 _A = 75°C	lo	3	А	
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)	i _f (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 (0 + 150		

^{*}These Ratings are Limiting Values above Which the Serviceability of Any Semiconductor Device may be Impaired.

Electrical Characteristics T_A = 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 _R)	100	200	400	600	1000	
Maximum Reverse Current at Rated V _R T _A = 25°C TA = 100°C			5 500			μА
Maximum Forward Voltage at 3 A	1.2				V	
Max. Full Load Reverse Current, Full Cycle T _A = 105°C	0.5				mA	
Typical Junction Capacitance V _R = 4 V, f = 1 MHz			30			pF

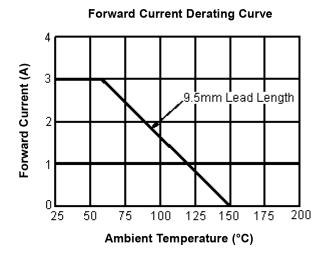
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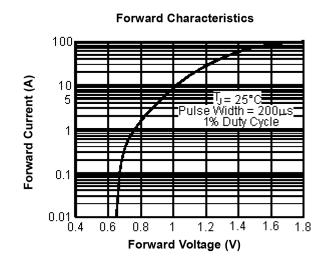


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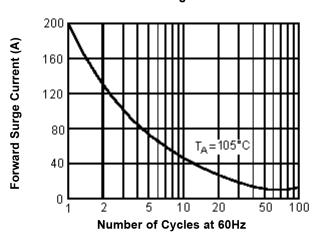


Ratings and Characteristic Curves

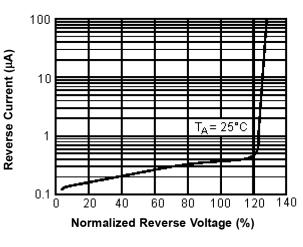




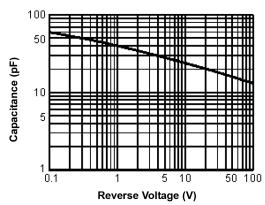
Overload Surge Current



Reverse Characteristics







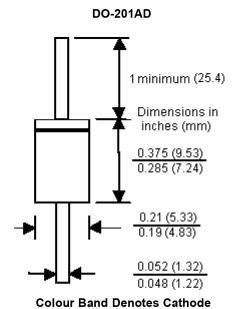
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General Purpose Rectifier Diodes



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Rectifier Diode, Single, 100V, 3A, 1.2V, Axial	1N5401+
Rectifier Diode, Single, 200V, 3A, 1.2V, Axial	1N5402+
Rectifier Diode, Single, 400V, 3A, 1.2V, Axial	1N5404+
Rectifier Diode, Single, 600V, 3A, 1.2V, Axial	1N5406+
Rectifier Diode, Single, 1kV, 3A, 1.2V, Axial	1N5408+

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