

3.0 Amp. Glass Passivated Junction Rectifier

DO-201AD (DO-27) 	Voltage 50V to 1000 V Current 3.0 A at 105° C HYPERECTIFIER®
	FEATURES • Glass passivated chip junction • Hyperectifier structure for high reliability • Cavity-free glass-passivated junction • Low forward voltage drop • Low leakage current, typical I_R less than 0.1 μA • High forward surge capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC   RoHS COMPLIANT
	MECHANICAL DATA • Case: DO-201AD (DO-27). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test.
	TYPICAL APPLICATIONS Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application

Maximun Ratings and Electrical Characteristics at 25°C

		1N5400GP	1N5401GP	1N5402GP	1N5404GP	1N5406GP	1N5407GP	1N5408GP
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 105^\circ\text{C}$	3.0 A						
I_{FRM}	Recurrent Peak Forward Current	30 A						
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	200 A						
T_j	Operating Temperature Range	-65 to +175°C						
T_{stg}	Storage Temperature Range	-65 to +175°C						
E_{RSM}	Maximum non Repetitive Peak Reverse Avalanche energy. $I_R = 1\text{A}; T_j = 25^\circ\text{C}$	20 mJ						

Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

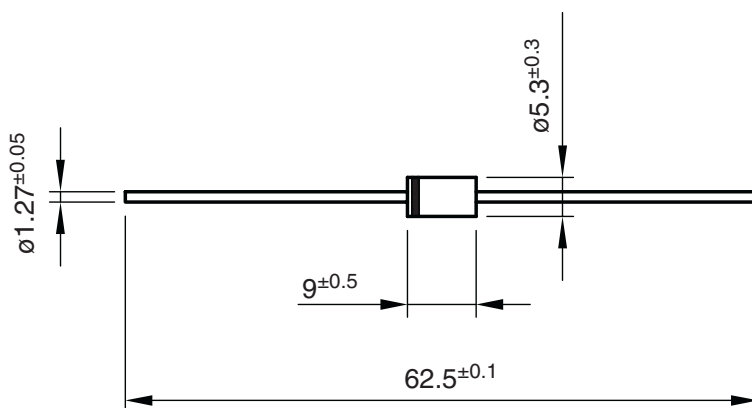
V_F	Maximum Forward Voltage Drop at $I_F = 3\text{A}$	1.2 V
I_R	Maximum Reverse Current at V_{RRM} at 25°C at 150°C	5 μ A 500 μ A
R_{thj-a}	Maximum Thermal Resistance ($l = 10\text{mm.}$)	30 °C/W

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1N5402GP AMP	AMP	AMMO BOX	1,500	1.100
1N5402GP TR	TR	14" diameter tape and reel	1,500	1.100

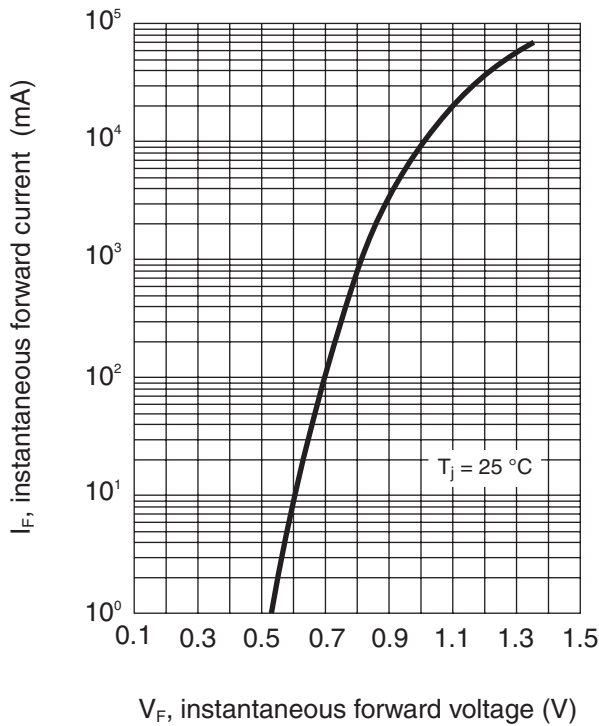
Package Outline Dimensions: (mm) DO-201AD (DO-27)



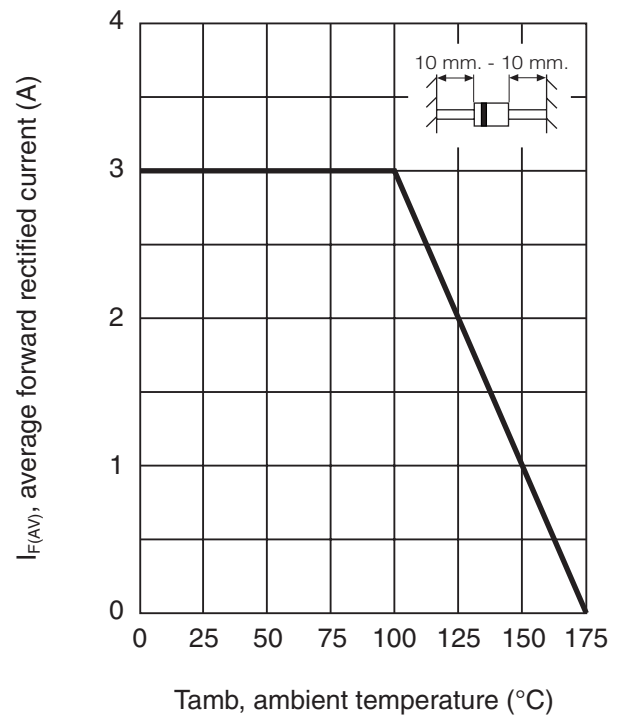
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Ratings and Characteristics (T_a 25 °C unless otherwise noted)

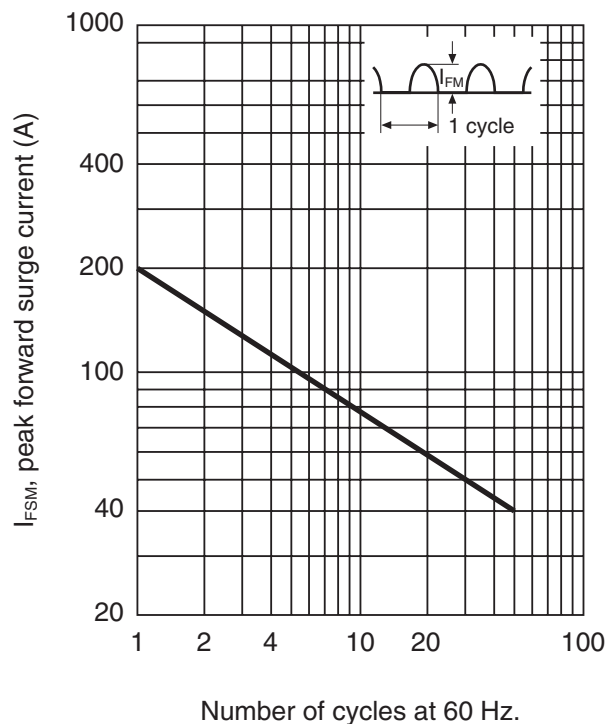
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



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