




3.0 Amp. Glass Passivated Junction Rectifier

<p>DO-201AD (DO-27)</p> 	<p>Voltage 50V to 1000 V</p>	<p>Current 3.0 A at 105° C</p>	
			
	<p>FEATURES</p> <ul style="list-style-type: none"> 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 		
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> 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. 		
<p>TYPICAL APPLICATIONS</p> <p>Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application</p>			

Maximun Ratings and Electrical Characteristics at 25°C

		1N 5400GP	1N 5401GP	1N 5402GP	1N 5404GP	1N 5406GP	1N 5407GP	1N 5408GP
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 105^\circ C$	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. $I_R = 1A; T_j = 25^\circ C$	20 mJ						

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

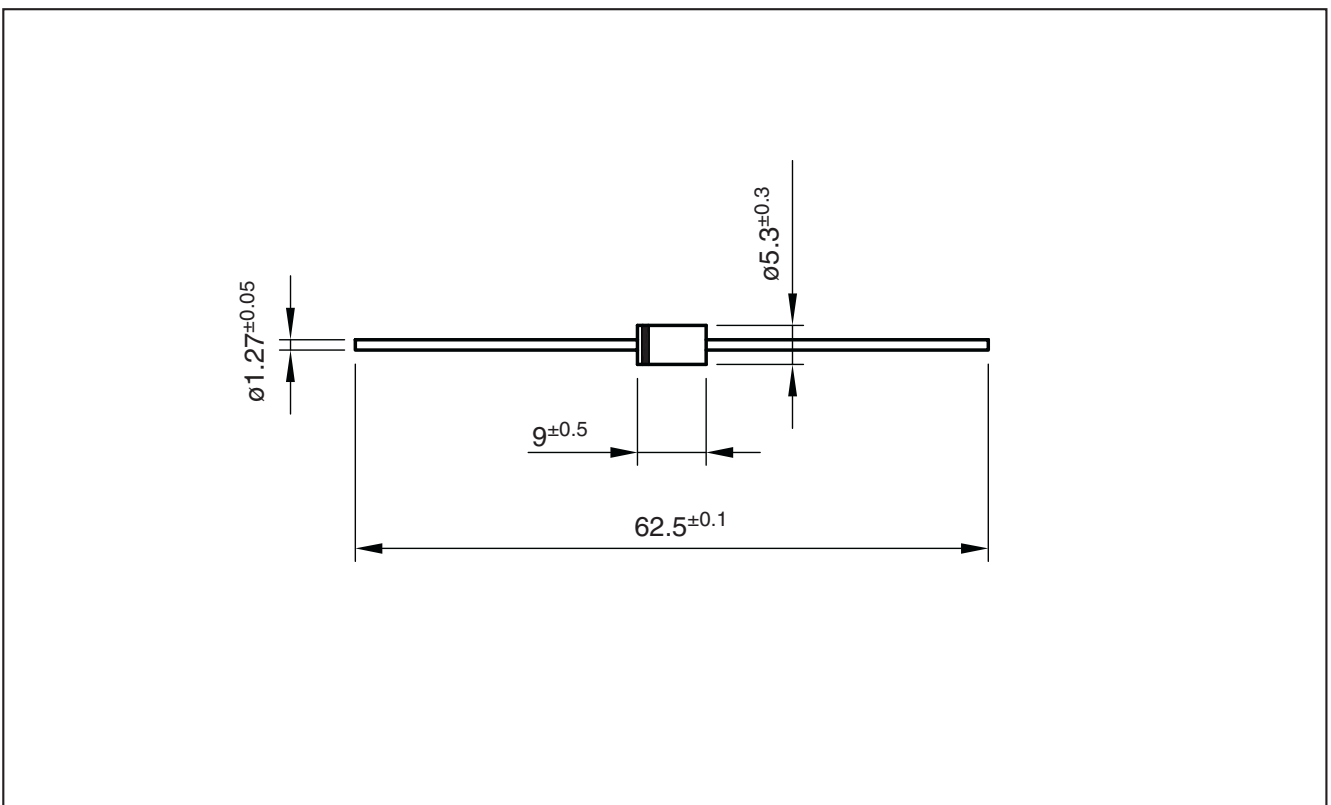
V_F	Maximum Forward Voltage Drop at $I_F = 3A$	1.2 V
I_R	Maximum Reverse Current at V_{RRM} at 25°C at 150°C	5 μ A 500 μ A
Rthj-a	Maximum Thermal Resistance (l = 10mm.)	30 °C/W

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Ordering information

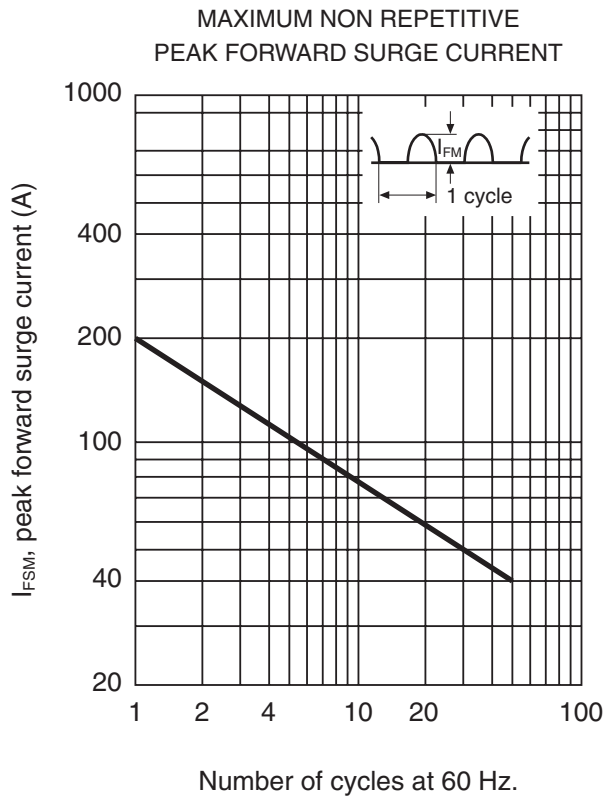
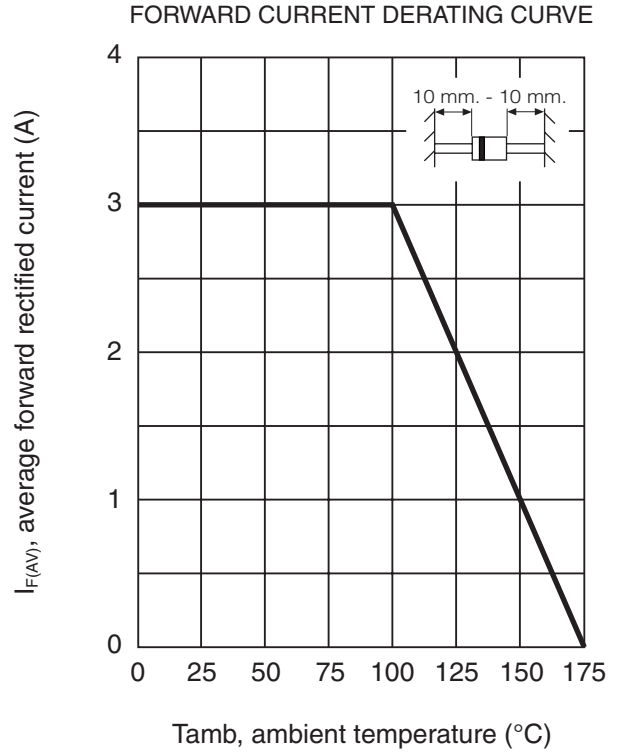
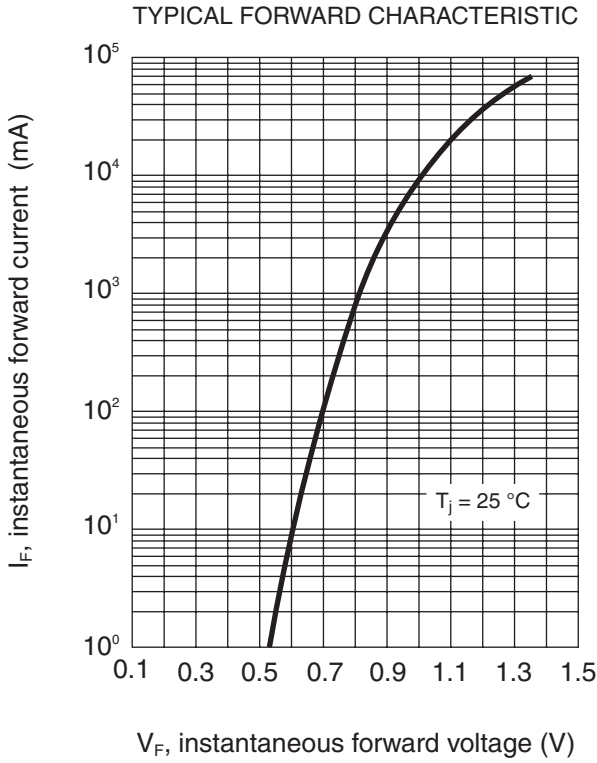
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1N5402GP AMP	AMP	AMMO BOX	1,500	1.100
1N5402GP TR	TR	14" diameter tape and reel	1,500	1.100

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



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



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