




## 3.0 Amp. Glass Passivated Junction Rectifier

 <p><b>DO-201AD (DO-27)</b></p>	<b>Voltage</b> 200V to 800 V	<b>Current</b> 3.0 A at 70° C	
			
	<b>FEATURES</b> <ul style="list-style-type: none"> <li>Glass passivated chip junction</li> <li>Hyperectifier structure for high reliability</li> <li>Cavity-free glass-passivated junction</li> <li>Low forward voltage drop</li> <li>Low leakage current, typical <math>I_R</math> less than 0.1 <math>\mu</math>A</li> <li>High forward surge capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> </ul>		
	<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li><b>Case:</b> DO-201AD (DO-27). Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> Color band denotes cathode end</li> <li><b>Terminals:</b> 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.</li> </ul>		
<b>TYPICAL APPLICATIONS</b> Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application			

### Maximun Ratings and Electrical Characteristics at 25°C

		1N5624GP	1N5625GP	1N5626GP	1N5627GP
$V_{RRM}$	Peak Recurrent Reverse Voltage (V)	200	400	600	800
$I_{F(AV)}$	Forward Current at $T_{amb} = 70^\circ C$	3.0 A			
$I_{FRM}$	Recurrent Peak Forward Current	30 A			
$I_{FSM}$	8.3 ms. Peak Forward Surge Current (Jedec Method)	125 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 $T_{amb} = 25^\circ C$

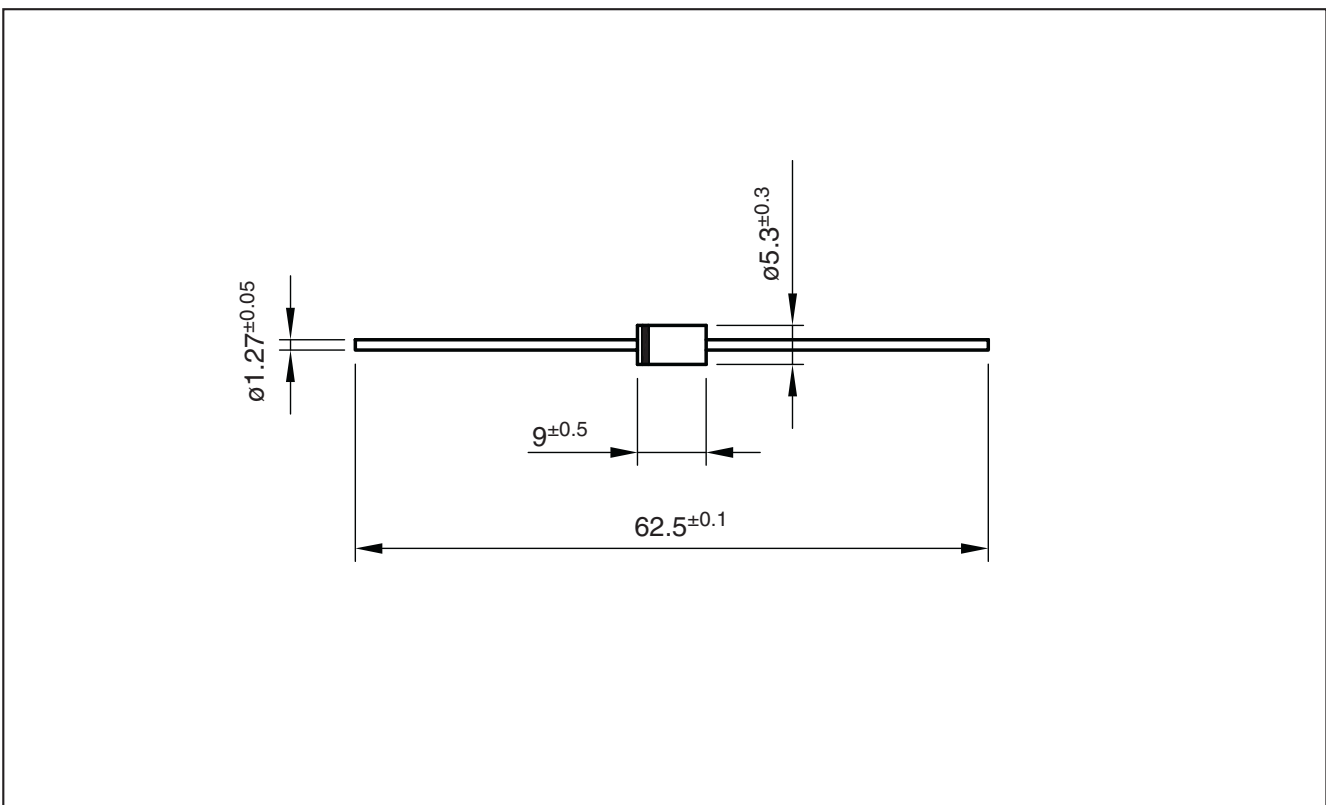
$V_F$	Maximum Forward Voltage Drop at $I_F = 3.0A$	1.0 V
$I_R$	Maximum Reverse Current at $V_{RRM}$ at 25°C at 150°C	5 $\mu$ A 300 $\mu$ A
$R_{thj-a}$	Maximum Thermal Resistance ( $l = 10mm.$ ) Max. Typ.	30 °C/W 15 °C/W

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**Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1N5625GP AMP	AMP	AMMO BOX	1,500	1.100
1N5625GP TR	TR	14" diameter tape and reel	1,500	1.100

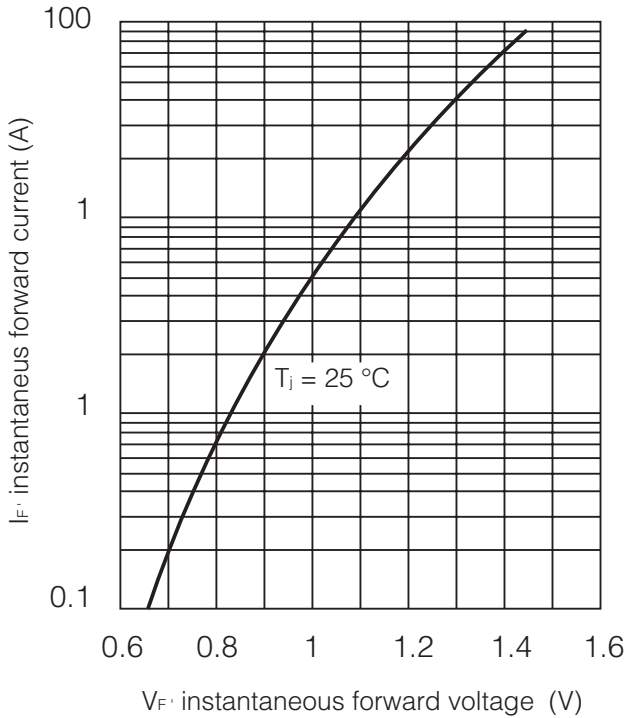
**Package Outline Dimensions: (mm) DO-201AD (DO-27)**



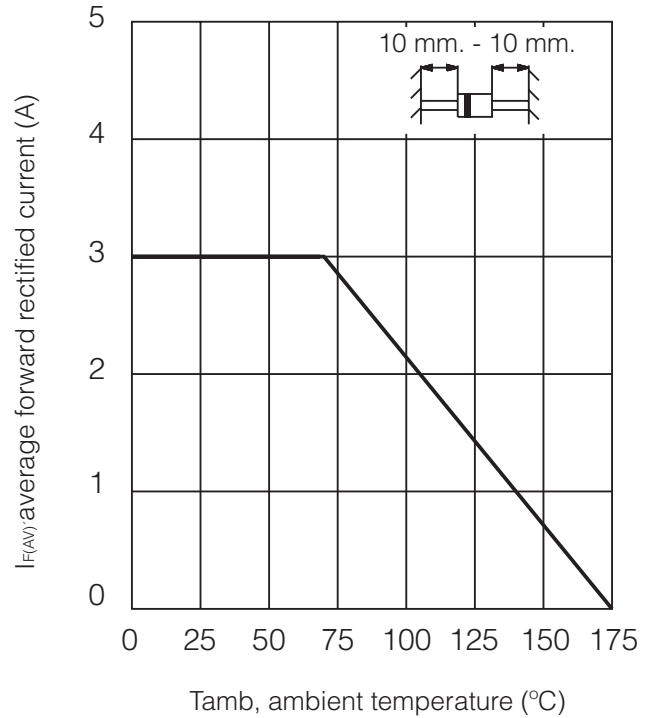
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**Ratings and Characteristics (Ta 25 °C unless otherwise noted)**

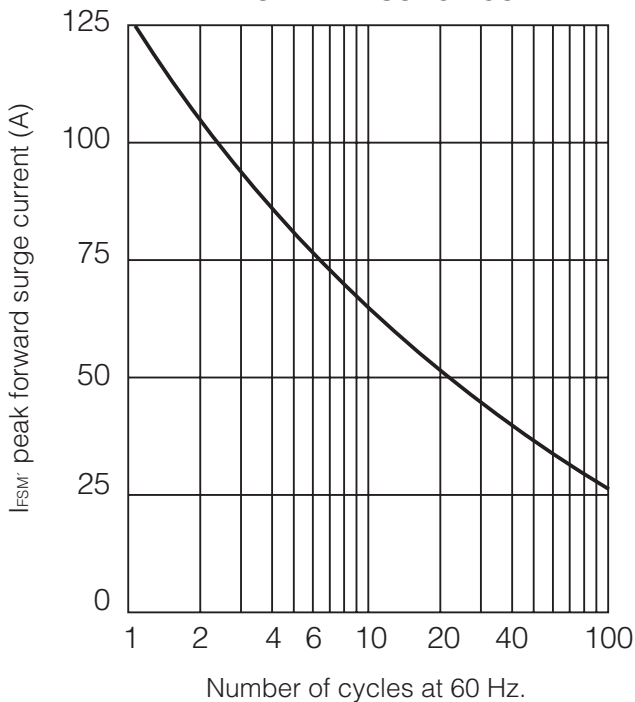
TYPICAL FORWARD CHARACTERISTIC



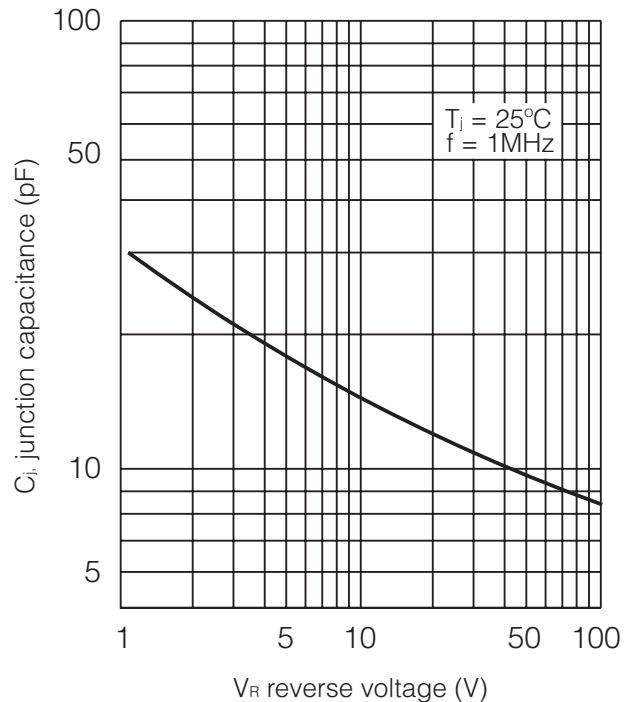
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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