






3.0 Amp. Glass Passivated Junction Rectifier

 <p>DO-201AD (DO-27)</p>	Voltage 50V to 1200 V	Current 3.0 A at 55° C	
			
	FEATURES <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 AEC-Q101 qualified Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC 		   RoHS COMPLIANT
	MECHANICAL DATA <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. HE3 suffix for high reliability grade, meets JESD 201 class 2 whisker test. 		
TYPICAL APPLICATIONS Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.			

Maximun Ratings and Electrical Characteristics at 25°C

		GP30A	GP30B	GP30D	GP30G	GP30J	GP30K	GP30M	GP30Q
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000	1200
$I_{F(AV)}$	Forward Current at $T_{amb} = 55^\circ C$	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 $T_{amb} = 25^\circ C$

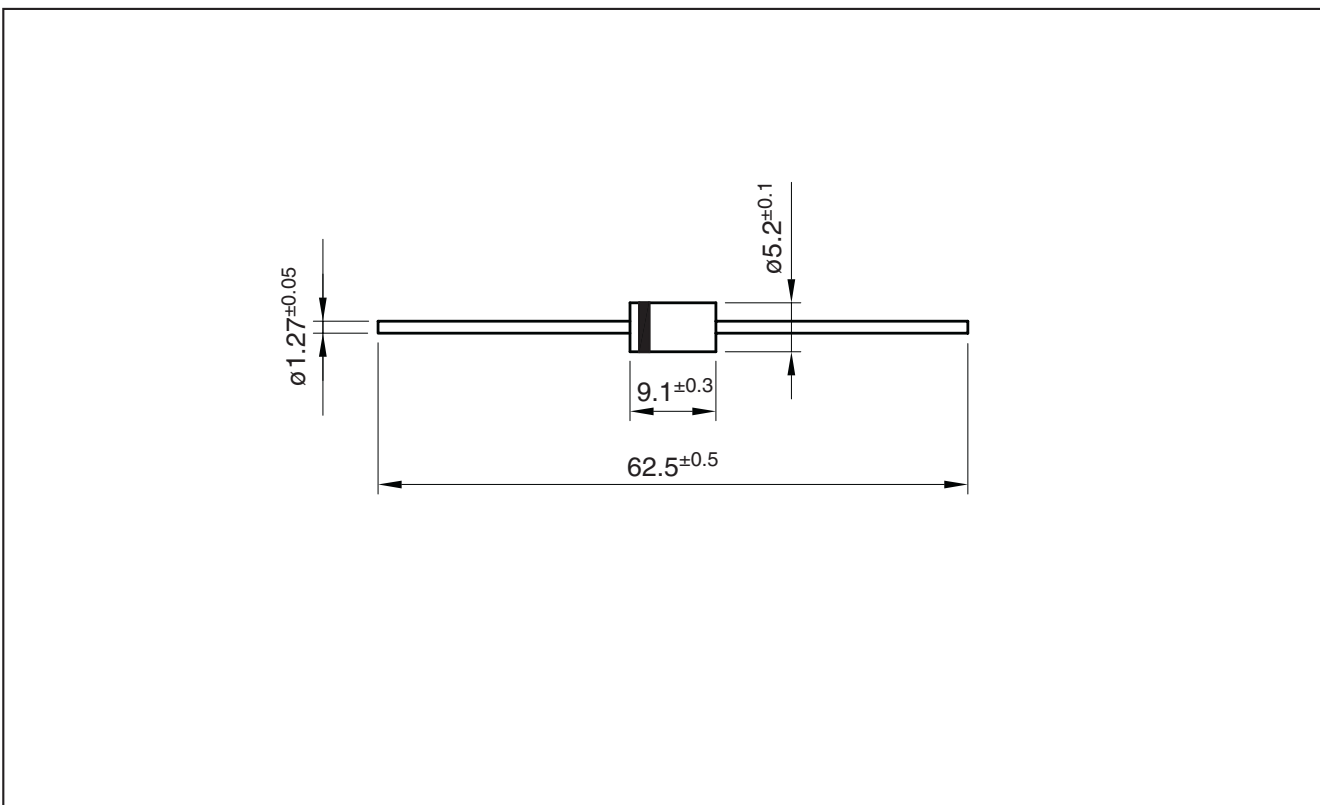
V_F	Maximum Forward Voltage Drop at $I_F = 3.0A$	1.1 V
I_R	Maximum Reverse Current at V_{RRM} at 25°C at 150°C	5 μ A 300 μ A
R_{thj-a}	Maximum Thermal Resistance ($l = 10mm.$) Max. Typ.	30 °C/W 15 °C/W

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
GP30D AMP	AMP	AMMO BOX	1,500	1.100
GP30D TR	TR	14" diameter tape and reel	1,500	1.100
GP30D HE3 AMP	AMP	AMMO BOX	1,500	1.100
GP30D HE3 TR	TR	14" diameter tape and reel	1,500	1.100

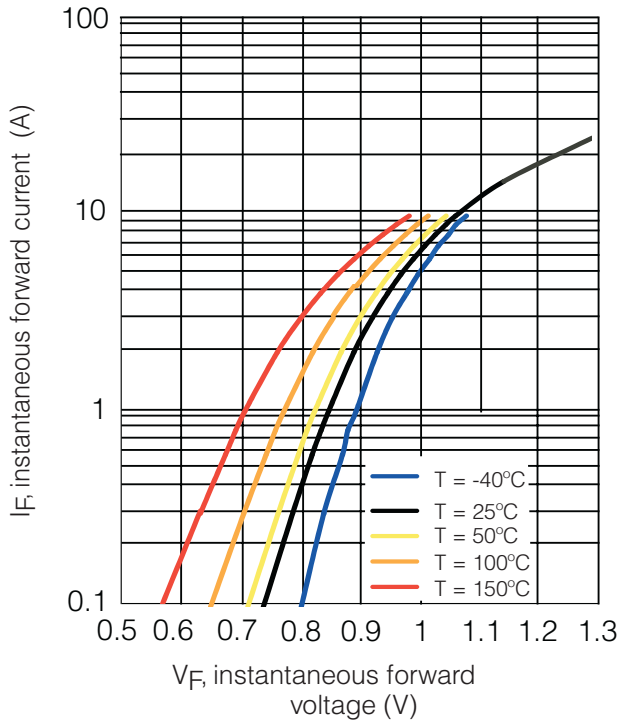
Package Outline Dimensions: (mm) DO-201AD (DO-27)



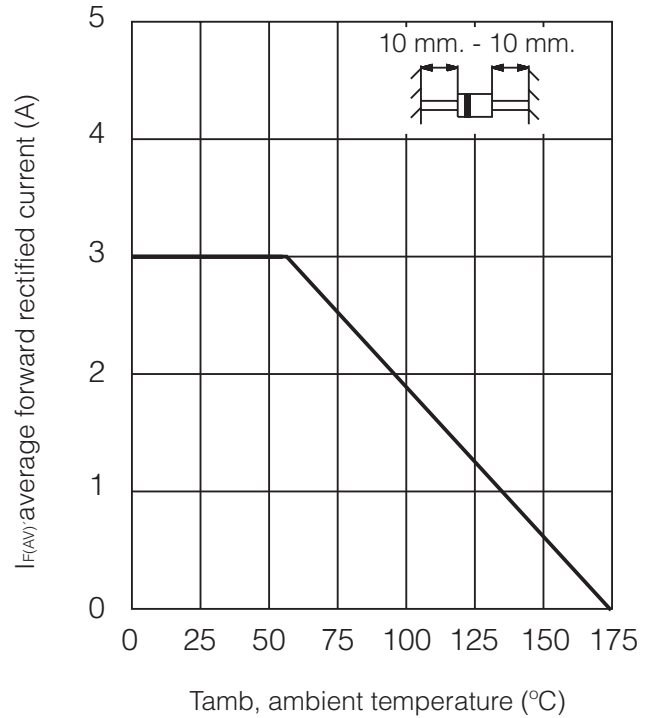
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Ratings and Characteristics (Ta 25 °C unless otherwise noted)

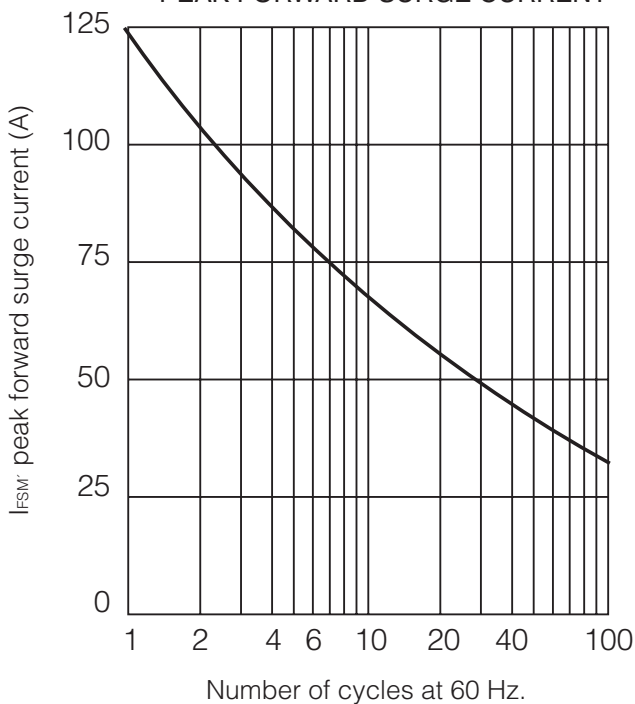
TYPICAL FORWARD CHARACTERISTIC



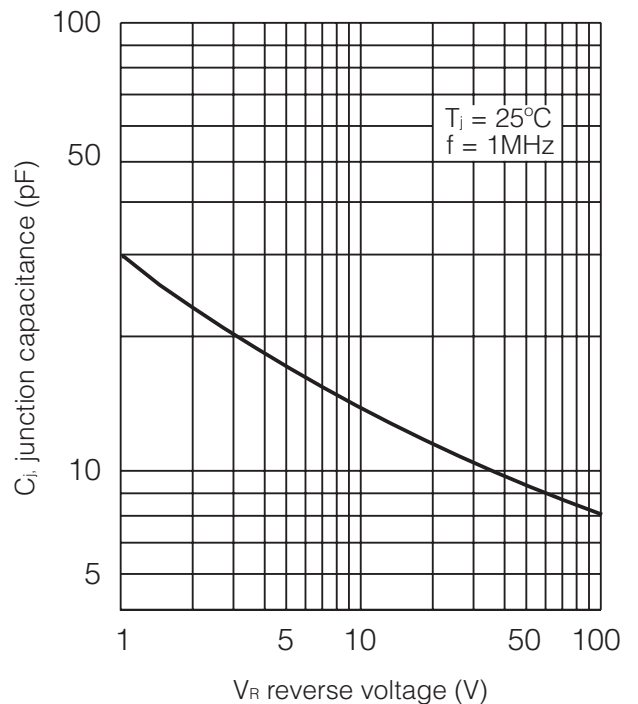
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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Revision History

Date	Revision	Description of Changes
12-Nov-2012	0	Original Data Sheet
11-Jan-2017	1	Temperatures other than 25°C introduced in the forward characteristic graph

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