

1N5400 THRU 1N5408

AXIAL GENERAL PURPOSE RECTIFIER

DO-201AD Axial General Purpose Rectifier

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer and telecommunication

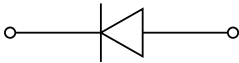
Mechanical Data

- Case: DO-201AD
Molding compound meets UL 94V-0 flammability rating
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage
50-1000 V
Forward Current
3 Ampere

DO-201AD



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Device marking code			1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current @ 60Hz sinewave, Resistance load, TL (Fig.1)	$I_{F(AV)}$	A	3.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	140						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T_J	°C	-55 ~ +125						
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	20						
	$R_{\theta J-L}$	°C /W	10						

Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Maximum instantaneous forward voltage	$I_F=3.0A$	V_F	V	1.1						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{RRM}, T_A=25^{\circ}C$	I_{R1}	μA	10						
	$V_R=V_{RRM}, T_A=100^{\circ}C$	I_{R2}		100						

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● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

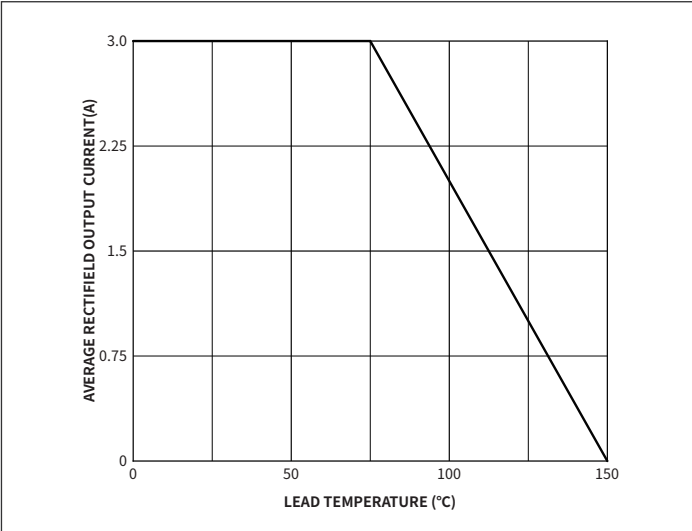


Fig.1 Forward Current Derating Curve

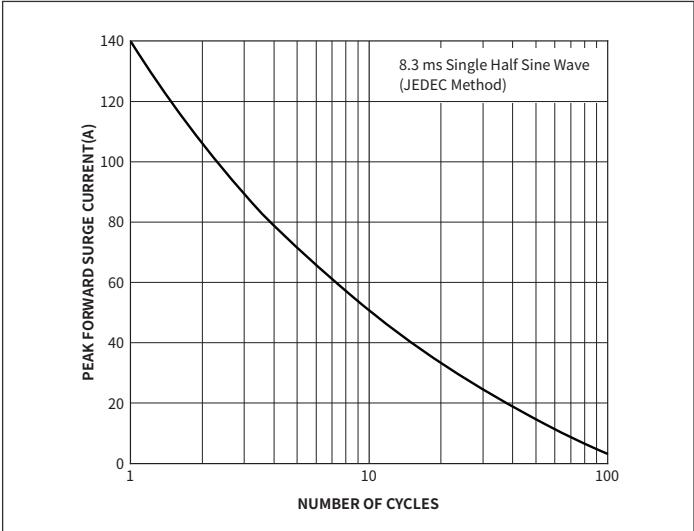


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

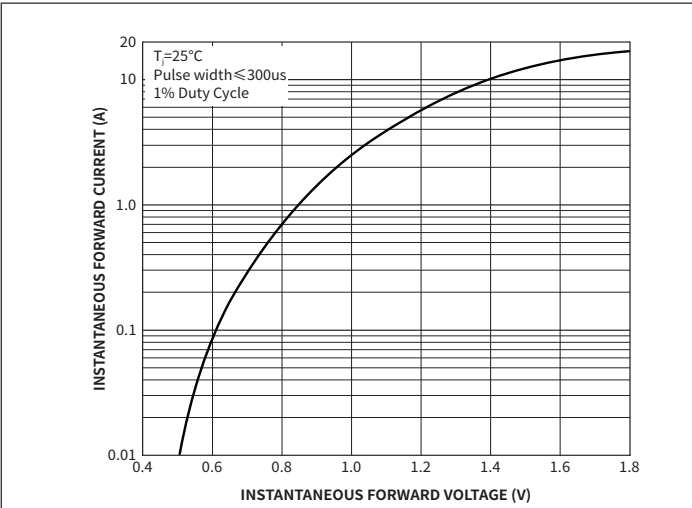


Fig.3 Typical Forward Voltage

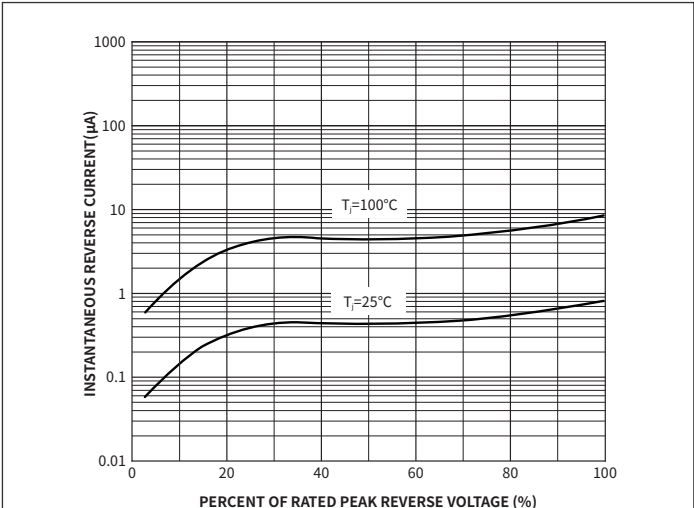


Fig.4 Typical Reverse Characteristics

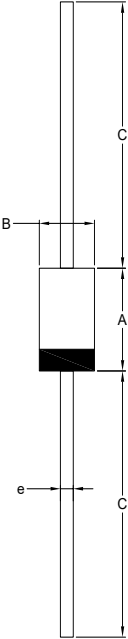
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● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
DO-201AD	0.954	1250	12500

● Package Outline Dimensions (DO-201AD)

	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	7.20	9.50	0.285	0.375
B	4.80	5.30	0.188	0.210
C	24.50	-	0.96	-
e	1.0	1.30	0.039	0.052