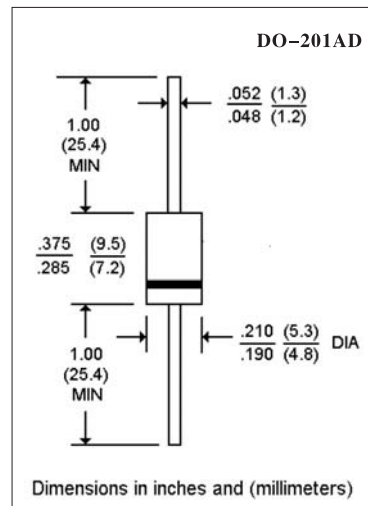


# 1N5400-1N5408

## ■ Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 200A Peak
- Low Reverse Leakage Current



## ■ Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>									
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V	
Average Rectified Output Current @ TA = 105°C*1	I <sub>O</sub>	3.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	200								A
Forward Voltage @ I <sub>F</sub> = 3.0A	V <sub>FM</sub>	1.0								V
Peak Reverse Current @ TA = 25°C at Rated DC Blocking Voltage @ TA = 150°C	I <sub>RM</sub>	10 100								μ A
Typical Junction Capacitance *2	C <sub>j</sub>	50				25				pF
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	15								K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to 150								°C

\*1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

\*2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



1N5400-1N5408

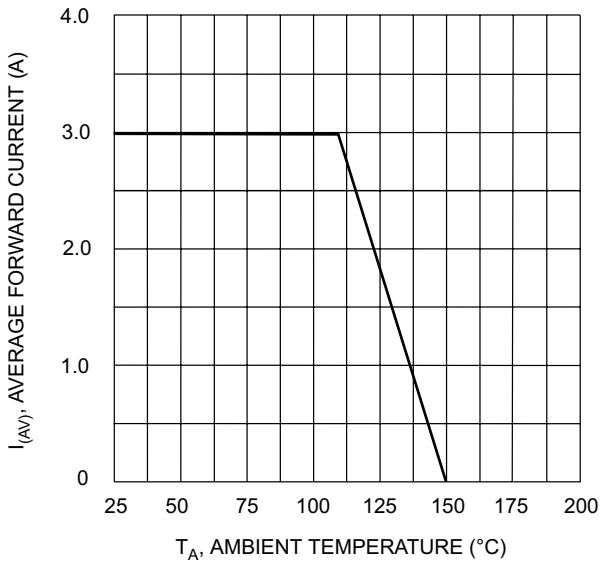


Fig. 1 Forward Current Derating Curve

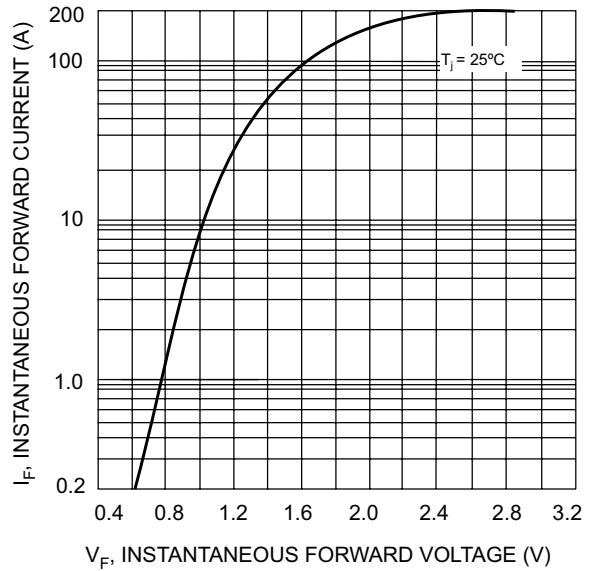


Fig. 2 Typical Forward Characteristics

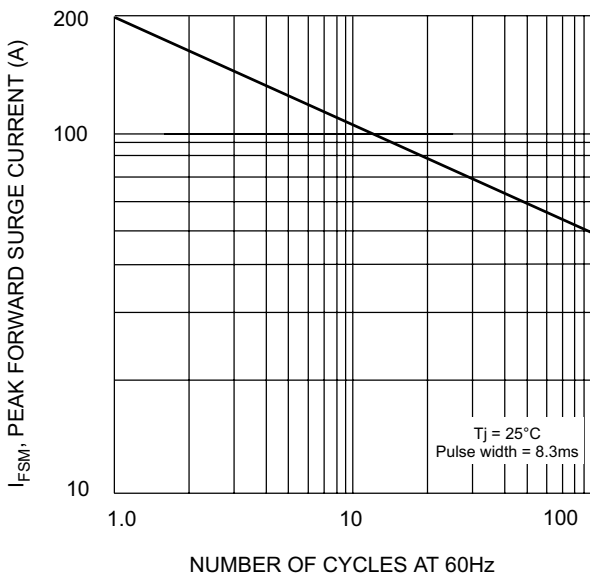


Fig. 3 Maximum Non-Repetitive Surge Current

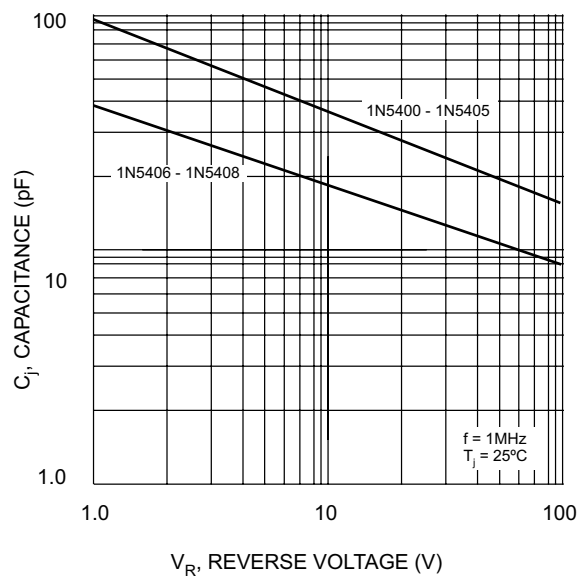


Fig. 4 Typical Junction Capacitance