



1N5400 – 1N5408

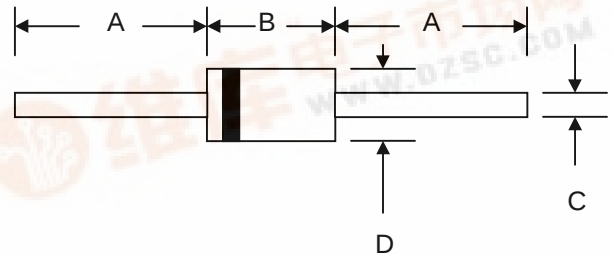
3.0A SILICON RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Epoxy: UL 94V-O rate flame retardant



DO-201AD		
Dim	Min	Max
A	25.4	—
B	8.50	9.50
C	1.20	1.30
D	5.0	5.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	I _O	3.0							A
@T _A = 75°C									
Non-Repetitive Peak Forward Surge Current	I _{FSM}	200							A
8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)									
Forward Voltage	V _{FM}	1.0							V
@I _F = 3.0A									
Peak Reverse Current	I _{RM}	5.0							μA
@T _A = 25°C									
At Rated DC Blocking Voltage		100							
@T _A = 100°C									
Typical Junction Capacitance (Note 2)	C _j	50							pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	18							K/W
Operating Temperature Range	T _j	-65 to +125							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

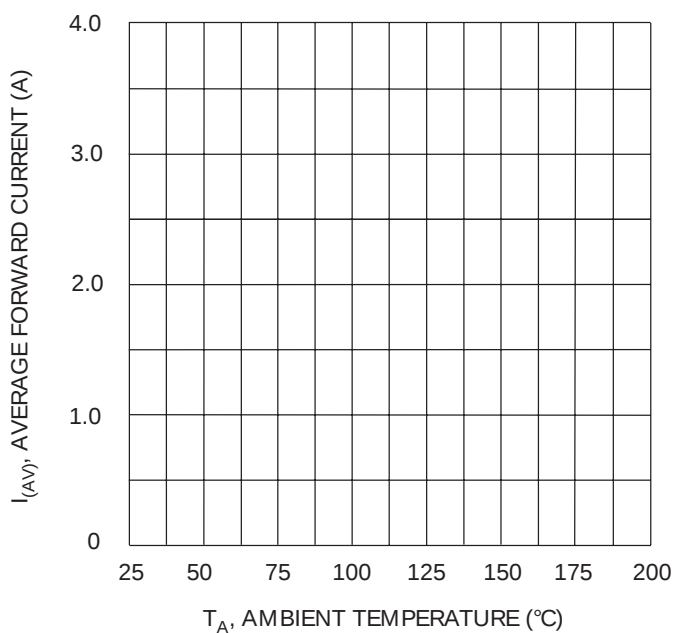


Fig. 1 Forward Current Derating Curve

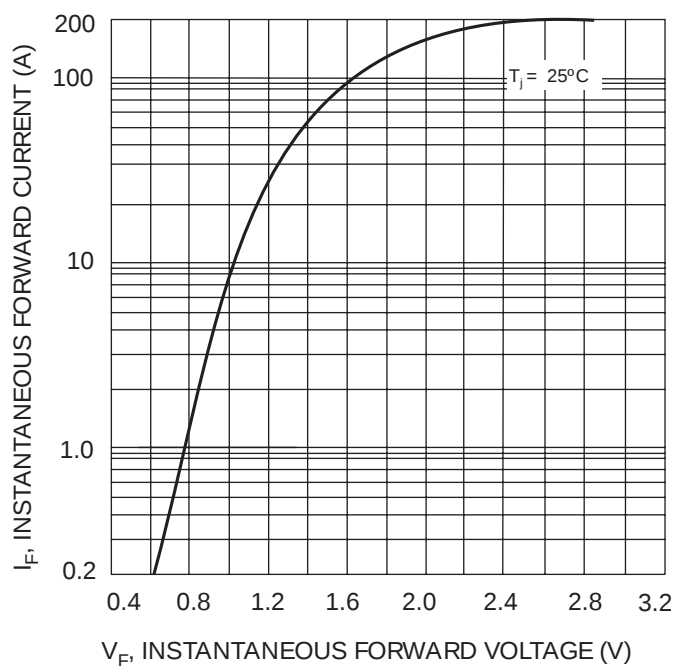


Fig. 2 Typical Forward Characteristics

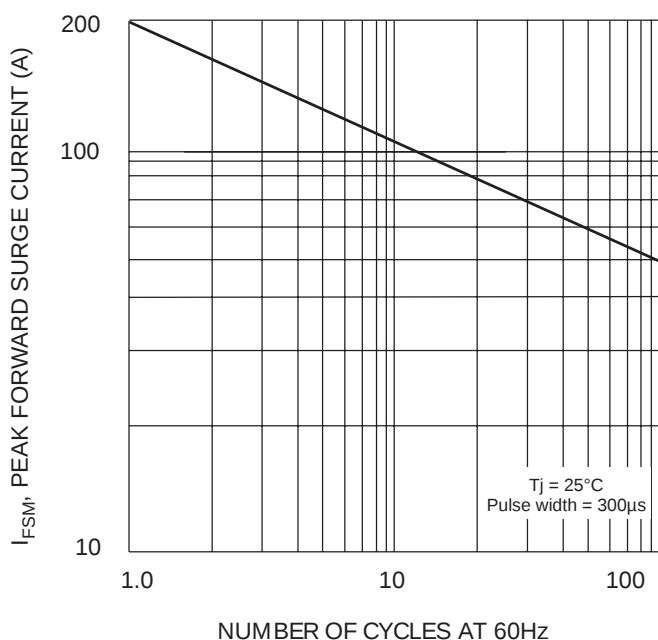


Fig. 3 Maximum Non-Repetitive Surge Current

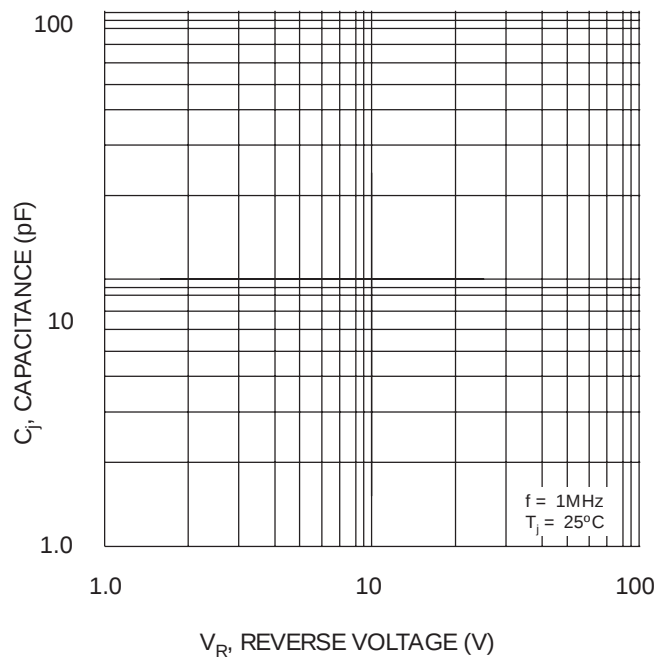


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
1N5400-T3	DO-201AD	1200/Tape & Reel
1N5400-TB	DO-201AD	1200/Tape & Box
1N5400	DO-201AD	500 Units/Box
1N5401-T3	DO-201AD	1200/Tape & Reel
1N5401-TB	DO-201AD	1200/Tape & Box
1N5401	DO-201AD	500 Units/Box
1N5402-T3	DO-201AD	1200/Tape & Reel
1N5402-TB	DO-201AD	1200/Tape & Box
1N5402	DO-201AD	500 Units/Box
1N5404-T3	DO-201AD	1200/Tape & Reel
1N5404-TB	DO-201AD	1200/Tape & Box
1N5404	DO-201AD	500 Units/Box
1N5406-T3	DO-201AD	1200/Tape & Reel
1N5406-TB	DO-201AD	1200/Tape & Box
1N5406	DO-201AD	500 Units/Box
1N5407-T3	DO-201AD	1200/Tape & Reel
1N5407-TB	DO-201AD	1200/Tape & Box
1N5407	DO-201AD	500 Units/Box
1N5408-T3	DO-201AD	1200/Tape & Reel
1N5408-TB	DO-201AD	1200/Tape & Box
1N5408	DO-201AD	500 Units/Box

Products listed in **bold** are WTE **Preferred** devices.

♦T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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