

GSD1N5820 Series

Axial Lead Schottky Power Rectifiers

Product Description

Schottky Barrier Rectifiers 3.0A / 20V To 40V

Features

- Low Forward Voltage
- Low Switching Noise
- High Surge Capacity
- Guarantee Reverse Avalanche
- Guard Ring for Stress Protection
- Low Power Loss & High Efficiency
- 125°C Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction
- Lead(Pb)-Free

Mechanical Data

- Case : JEDEC DO-201AD Molded Plastic
- Polarity : Collar Band Denotes Cathode
- Weight : 1.1 grams
- Mounting Position : Any

Packages



DO-201AD

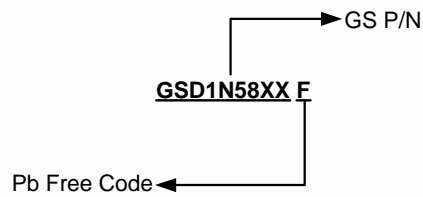
Marking Information

Part Number	Package	Marking
GSD1N5820F	DO-201AD	WTYYWW 1N5820.
GSD1N5821F	DO-201AD	WTYYWW 1N5821.
GSD1N5822F	DO-201AD	WTYYWW 1N5822.

※ "WT" GS Code & "YYWW" Date Code

※ "1N58XX" GS P/N & "." Halogen Free

Ordering Information

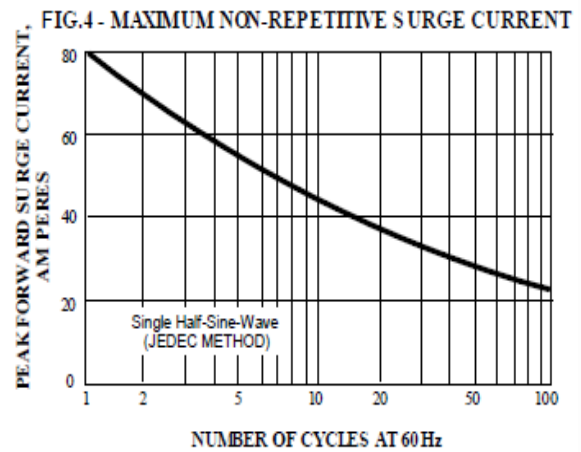
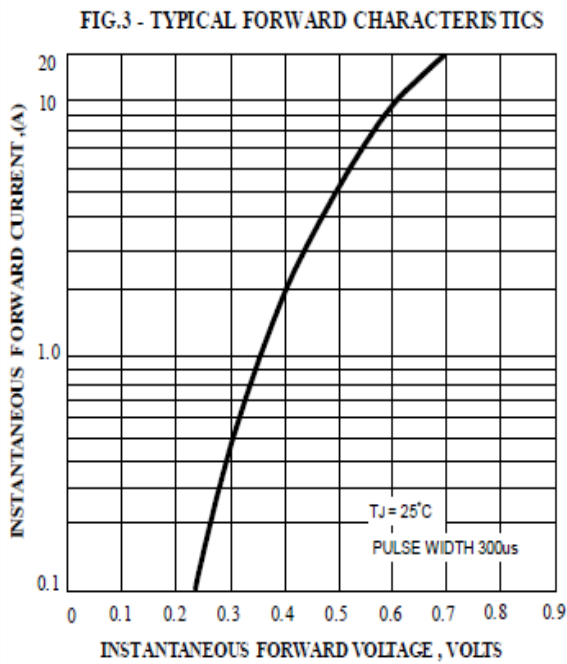
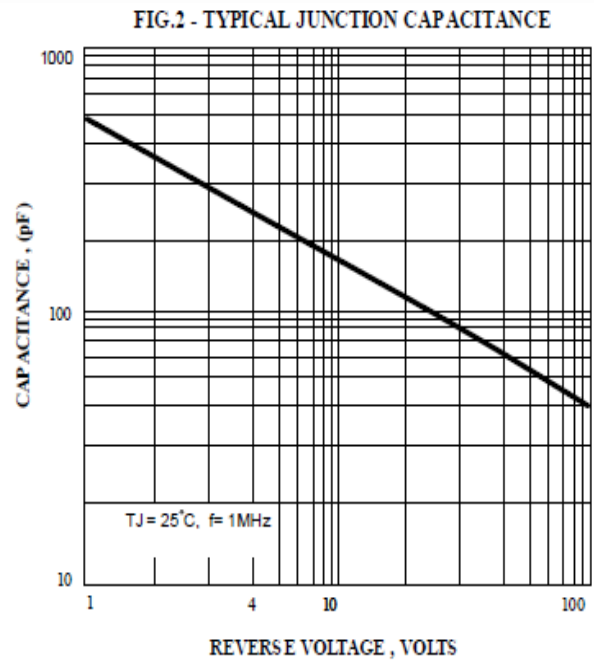
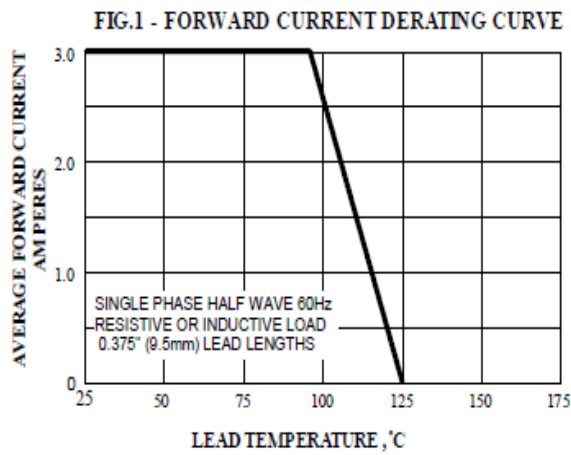


Part Number	Package	Quantity
GSD1N5820F Series	DO-201AD	5000 PCS

Electrical Characteristics

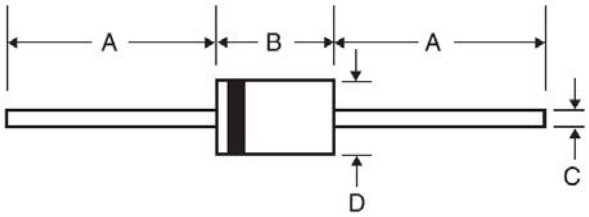
Symbol	Conditions	1N5820	1N5821	1N5822	Unit
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	20	30	40	V
V_{RMS}	Maximum RMS Voltage	14	21	28	V
V_F	Maximum Instantaneous Forward Voltage ($I_F=1.0A$) ($I_F=3.0A$)	0.475 0.85	0.5 0.9	0.525 0.95	V
$I_{F(AV)}$	Average Rectifier Forward Current	3.0			A
I_{FSM}	Non-Repetitive Peak Square Current (Surge Applied at Rated Load Condition Half wave, Single Phase, 60Hz)	80			A
C_P	Typical Junction Capacitance ($V_R=4.0V$, $f=1.0MHz$)	250			pF
I_R	Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C=25^\circ C$)	2.0			mA
	Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C=100^\circ C$)	20			
T_J	Junction Temperature Range	-65 to +125			$^\circ C$
T_{STG}	Storage Temperature Range	-65 to +125			$^\circ C$

Typical Characteristics



Package Dimension

DO-201AD











Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	25.40	-	1.000	-
B	7.30	9.50	0.287	0.374
C	1.20	1.30	0.047	0.051
D	4.80	5.60	0.188	0.220



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