

1N4001SG THRU 1N4007SG

Glass Passivated Rectifiers		Reverse Voltage - 50 to 1000Volts Forward Current - 1.0 Amperes							
Features • Low cost		A-4(05						Pb
Low cost Ended and a current				T II					Della
Low reverse leakage current Low forward voltage drop					028 (0 7)			c	RoHS
 High surge capacity 			1.0	(25.4)	<u>028 (0.7)</u> 021 (0.5)	Dia.			
Meet UL flammability classification 94V-0			1	Min.					
Mechanical Data			.205 (5.2						
 Case: JEDEC A-405 molded plastic 			165 (4.2						
 Polarity: Color band denotes cathode 				↑	407 (0 7				
 Mounting position: Any 				►	.107 (2.7) Dia.			
Note: Products with logo HV or				(25.4)	.000 (2.0	·)			
are made byHY Electronic (Cayman) Limited.			ľ	Min.					
Applications									
 For use in low voltage, high frequency inverters, 									
polarity protection applications									
polarity protection applications									
			Packag	e Outline	Dimensi	ons in Inc	hes (Millin	motors)	
Maximum Ratings and Electrical Charact	eristics	5		e e utilite	2			neters)	
Maximum Ratings and Electrical Charact		5						neters)	
Rating at 25 $^{\circ}$ C ambient temperature unless otherwise spe		3						neters)	
Rating at 25 $^{\circ}$ C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load.		5						neters)	
Rating at 25 $^{\circ}$ C ambient temperature unless otherwise spe		5						neters)	
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	cified.	1N	1N	1N	1N	1N	1N	1N	Unit
Rating at 25 $^{\circ}$ C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load.			-		1N				Unit
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	cified.	1N	1N	1N	1N	1N	1N	1N	Unit V
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage	Symbol VRRM VRMS	1N 4001SG 50 35	1N 4002SG	1N 4003SG	1N 4004SG 400 280	1N 4005SG	1N 4006SG	1N 4007SG	V V
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage	Symbol	1N 4001SG 50	1N 4002SG 100	1N 4003SG 200	1N 4004SG 400 280 400	1N 4005SG 600	1N 4006SG 800	1N 4007SG 1000	V
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=75 °C	Symbol VRRM VRMS	1N 4001SG 50 35	1N 4002SG 100 70	1N 4003SG 200 140	1N 4004SG 400 280	1N 4005SG 600 420	1N 4006SG 800 560	1N 4007SG 1000 700	V V
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage	Symbol VRRM VRMS VDC	1N 4001SG 50 35	1N 4002SG 100 70	1N 4003SG 200 140	1N 4004SG 400 280 400 1.0	1N 4005SG 600 420	1N 4006SG 800 560	1N 4007SG 1000 700	V V V A
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=75 °C	Symbol VRRM VRMS VDC I(AV) IFSM	1N 4001SG 50 35	1N 4002SG 100 70	1N 4003SG 200 140	1N 4004SG 400 280 400 1.0 30	1N 4005SG 600 420	1N 4006SG 800 560	1N 4007SG 1000 700	V V V A A
Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=75 °C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS)	Symbol VRRM VRRM VDC I(AV) IFSM	1N 4001SG 50 35	1N 4002SG 100 70	1N 4003SG 200 140	1N 4004SG 400 280 400 1.0 30 3.7	1N 4005SG 600 420	1N 4006SG 800 560	1N 4007SG 1000 700	V V V A A A A ² s
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Rating at 25 °C ambient temperature unless otherwise spe Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=75 °C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS) Peak Forward Voltage at 1.0A DC (Note1) Maximum DC Reverse Current @TJ=25 °C at Rated DC Blocking Voltage @TJ=125 °C	Symbol VRRM VRMS VDC I(AV) IFSM I ² t VF	1N 4001SG 50 35	1N 4002SG 100 70	1N 4003SG 200 140	1N 4004SG 400 280 400 1.0 30 3.7 1.1 5.0	1N 4005SG 600 420	1N 4006SG 800 560	1N 4007SG 1000 700	V V A A A ² s V
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Notes: 1. 300uS pulse width, 2%duty cycle.

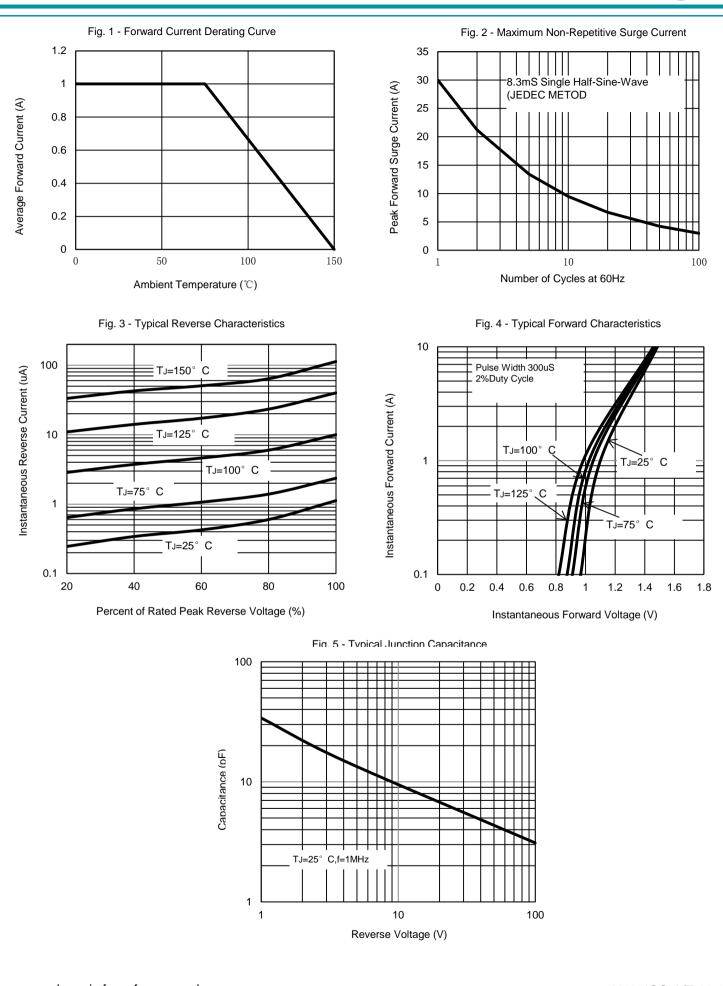
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. The typical data above is for reference only .

1N400*SG-A/T-00-00 Rev. 11, 18-May-2020

Rating and Characteristic Curves 1N4001SG THRU 1N4007SG





The curve above is for reference only.

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