Glass Passivated Rectifiers

Reverse Voltage - 1300 Volts Forward Current - 3.0 Amperes

Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical Data

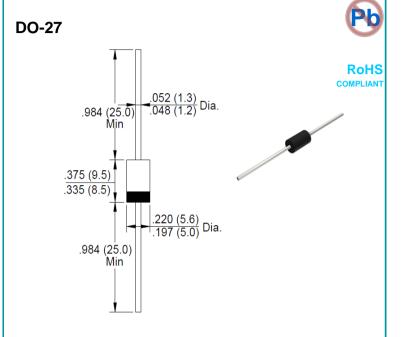
- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any



are made by HY Electronic (Cayman) Limited.

Applications

• For use in low voltage, high frequency inverters, polarity protection applications



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

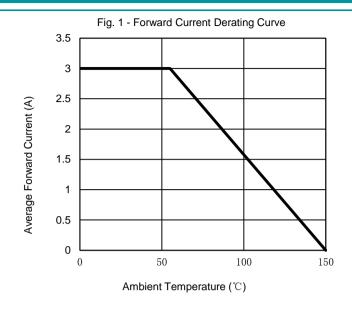
Characteristics	Symbol	1N	Unit
	Symbol	BY255G	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	1300	V
Maximum RMS Voltage	VRMS	910	V
Maximum DC Blocking Voltage	VDC	1300	V
Maximum Average Forward Rectified Current @Ta=55 $^{\circ}$ C	I(AV)	3.0	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	125	А
Superimposed on Rated Load (JEDEC Method)	IFOIN		^
I ² t Rating for Fusing (t<8.3mS)	l ² t	64.8	A ² s
Peak Forward Voltage at 3.0A DC (Note1)	VF	1.1	V
Maximum DC Reverse Current @TJ=25℃	lr	5.0	μA
at Rated DC Blocking Voltage @TJ=125°C	IK .	200	μΑ
Typical Junction Capacitance (Note 2)	Cı	35	pF
Typical Thermal Resistance Junction to Ambient	Reja	15	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150	$^{\circ}$ C

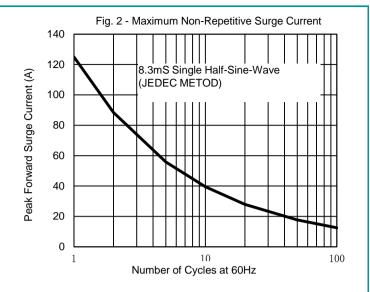
Notes: 1. 300uS pulse width, 2%duty cycle.

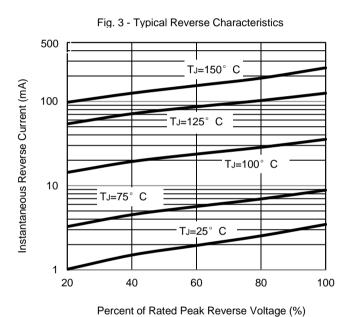
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .

1N5408GV3-A-N00-M001 Rev. 1, 22-May-2020









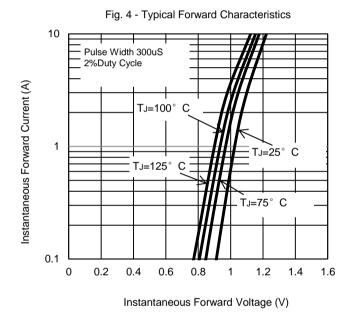
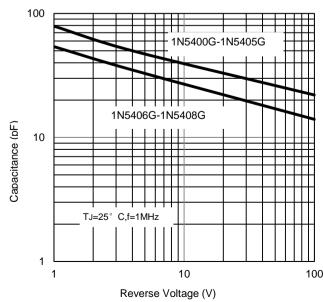


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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