

1N4001G THRU 1N4007G

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Unit

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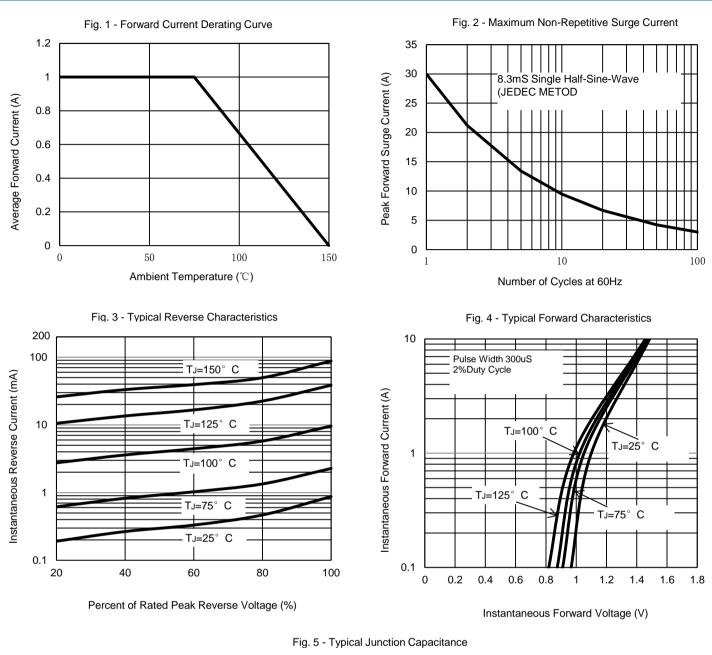
1000

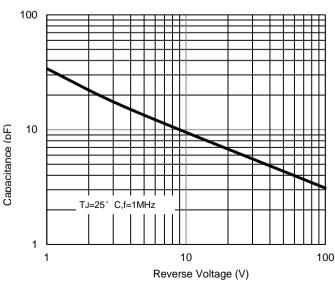
700

1000

Reverse Voltage - 50 to 1000Volts **Glass Passivated Rectifiers** Forward Current - 1.0 Amperes **DO-41** Features Low cost Low reverse leakage current .03<u>4 (0.9)</u> Dia. Low forward voltage drop High surge capacity .028 (0.7) 1.0(25.4) Meet UL flammability classification 94V-0 Min **Mechanical Data** .205 (5.2) • Case: JEDEC DO-41 molded plastic .165 (4.2) Polarity: Color band denotes cathode Mounting position: Any .<u>106 (2.7)</u> .079 (2.0) Dia. Note: Products with logo $H \mathcal{Y}_{\mathbb{R}}$ or $\mathcal{Y}_{\mathcal{Y}}$ 1.0 (25.4) are made byHY Electronic (Cayman) Limited. Min. 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%. 1N4001G 1N4002G 1N4003G 1N4004G 1N4005G 1N4006G 1N4007G Characteristics Symbol Maximum Repetitive Peak Reverse Voltage Vrrm 50 100 200 400 600 800 Maximum RMS Voltage VRMS 35 70 140 280 420 560 Maximum DC Blocking Voltage VDC 50 100 200 400 600 800 1.0 Maximum Average Forward Rectified Current @TA=75 °C I(AV) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, **I**ESM 30 Superimposed on Rated Load (JEDEC Method) 1²t 3.7 I²t Rating for Fusing (t<8.3mS) Peak Forward Voltage at 1.0A DC (Note1) VF 1.1 5.0 Maximum DC Reverse Current @TJ=25°C IR 50 at Rated DC Blocking Voltage @TJ=125°C Typical Junction Capacitance (Note 2) СJ 15 50 Typical Thermal Resistance Junction to Case Rejc **Operating Junction Temperature Range** ΤJ -55 to+150 -55 to+150 Storage Temperature Range Tstg 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*G-A/B/T-00/99-00/01 Rev. 11, 18-May-2020

Rating and Characteristic Curves 1N4001G THRU 1N4007G





The curve above is for reference only.

1N400*G-A/B/T-00/99-00/01 Rev. 11, 18-May-2020

Disclaimer

ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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