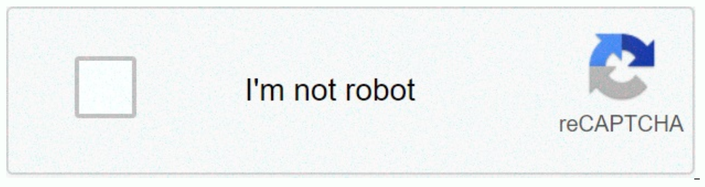

Continue

1n4007 rectifier diode datasheet

High power capacity High surge current capacity High reliability Low reverse current Low forward voltage drop * Case: DO-41 Molded plastic * Epoxy : UL94V-O speed axle inhibitor * Lead : Axial lead sold per MIL-STD-202 Method 208 guaranteed * Polarity : Ribbon denotes cathodeende * Mounting position : Any * Weight : 0,34 grams Rating 25 °C ambient temperature, unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacity loads that are power by 20%. RATING Maximum repeated peak reverse voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum average forward current 0.375 (9.5 mm) Lead length 75°C Peak Forward Surge Current 8.3ms Single Half Wave its overlaid on nominal load (JEDEC Method) Maximum forward voltage = 1.0 amp. Maximum DC Reverse Current at Nominal DC Blocking Voltage 100°C Typical Junction Capacitance (Note1) Typical Thermal Resistance (Note2) Junction Temperature Range Storage Temperature Range Temperature Range Notes : (1) Measured at 1.0 MHz and applied reverse voltage 4.0VDC (2) Thermal Resistance from Junction to Ambient 0.375 (9.5 mm) Lead Lengths, P.C. Mounted Board. FIG.1 - DERATING CURVE FOR OUTPUT CORRECTED POWER AVERAGE FORWARD OUTPUT CURRENT, AMPED FIG.2 - MAXIMUM NON-REPEATED PEAK FORWARD WAVE FLOW FIG.4 - TYPICAL REVERSE PROPERTIES REVERSE CURRENT, MICROAMPERES August 27, 2017 - 0 Comments [Click on the image to enlarge it] Pin No. Pin Name Description 1 Anode Current always in through Anode 2 Katode Current always outputs through Katode Features: Average forward power is 1A Non-repetitive Peak power is 30A Reverse power is 5uA. Peak repeating Reverse voltage is 1000V Power dissipation 3W Available in DO-41 Package Note: Complete technical details can be found on the datasheet give at the end of this page. 1N4007 Equivalent diodes: 1N4148, 1N4733A, 1N5408, 1N5822, Zener Diodes Description: A diode is a device that allows power flow through only one direction. It is the present should always flow from Anode to cathode. The cathode terminal can be identified using a gray bar as shown in the picture above. For the 1N4007 Diode, the maximum power capacity is 1A, it can withstand peaks of up to 30A. Therefore, we can use this in orbit that is designed for less than 1A. The reverse current is 5uA, which is negligible. Power diversion of this diode is 3W. Applications of Diode: Can be used to prevent reverse polarity problem Half Wave and Full Wave rectifier Used as a protection device Power regulators 2D representation (DO-41): High current capacity High surge current capacity Low reverse power Low forward voltage drop * Case: DO-41 Molded plastic * Epoxy : UL94V-O rate flame retardant * Lead: Axial lead furry per MIL-STD-202, Method 208 guaranteed * Polarity : Ribbon denotes cathodeende * Mounting position : Any * Weight : 0.34 grams Classification 25 °C ambient temperature, otherwise specified. Specified. phase, half wave, 60 Hz, resistive or inductive load. For capacity loads that are power by 20%. RATING Maximum repeated peak reverse voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum average forward current 0.375 (9.5 mm) Lead length 75°C Peak Forward Surge Current 8.3ms Single Half Wave its overlaid on nominal load (JEDEC Method) Maximum forward voltage = 1.0 amp. Maximum DC Reverse Current at rated DC Blocking voltage 100°C Typical Junction Capacitance (Note1) Typical thermal resistance (Note2) Junction Temperature range Temperature range Notes: (1) Measured at 1.0 MHz and applied reverse voltage 4.0VDC (2) Thermal resistance from Junction to Ambient 0.375 (9.5 mm) Lead lengths, P.C. FIG.1 - DERATING CURVE FOR OUTPUT CORRECTED POWER AVERAGE FORWARD OUTPUT CURRENT, AMPERES FIG.2 - MAXIMUM NON-REPEATED PEAK FORWARD SURGE CURRENT FIG.4 - TYPICAL REVERSE PROPERTIES OF REVERSE CURRENT, MICROAMPED 1N4001 THRU 1N4007 GENERAL PURPOSE PLASTIC SILICON ENSIFIKATOR REVERSE VOLTAGE: 50 TO 1000 VOLTS STREAM FORWARD: 1.0 AMPS · Low pretension · High power capacity · High capacity · High surge current capacity · Exceeds environmental standards for MIL-S-19500/228 DO-41 MECHANICAL DATAEtui: Molded plastic, DO-41 Epoxy: UL 94V-O rate flame retardant Lead: Axial wires, solderable per MIL-STD-202, method 208 guaranteed polarity: Color band denotes cathode-rear mounting position: Any weight: 0.012oz, 0.33gram dimensions in inches and (millimeters) Maximum ratings and electrical properties Ratings at 25 ° C ambient temperature, unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacity loads that are power by 20%. Maksimal tilbagevendende topadgående bakspænding Maksimal RMS Spænding Maksimal DC-blokerende spænding Maksimal gennemsnitlig fremadekseksekviseret forspændingsstrøm .375(9,5 mm) blylængde ved TA=75°C Peak Forward Surge Current 8.3ms enkelt halv-sin-bølge overlejret på nominel belastning (JEDEC metode) Maksimal fremspænding ved 1,0A DC og 25 ° C Maksimal fuld belastning Reverse Current Fuld cyklus Gennemsnit ved 75 ° C Ambient Maksimal reversestrøm ved TA = 25 ° C ved Nominel DC Blokering Spænding TA = 100 ° C Typisk Junction Capacitance (Note 1) Typisk termisk modstand (note 2) Driftskryds Temperaturområde Temperaturområde Symboler VRRM VRMS VDC 1N4001 50 35 50 1N4002 100 70 100 1N4003 200 140 200 1N4004 400 280 400 1N4005 600 420 600 1N4006 800 560 800 1N4007 1000 700 1000 Volt Volts VoltS I(AV) 1...1..1...1..1..1..1.1.1.1.1.1.1.1.1.1.1.1.(AV) 1..1..1..1.1.1.1.1.1.07 1.AV Volts Volts VoltS I(AV) 1...1...1..1..1.1.1.1.1.1.1.1.1.1.1.1.1.1. 0 Amp IFSM 30 Amp VF 1,1 Volt 30 uAmp 5,0 IR uAmp 50 CJ 15 pF RθJ 50 °C/W TJ -55 til +150 °C Tstg -55 til +150 ° C NOTES : 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC. 2 - Thermal Resistance Junction to Ambient 0.375 (9.5 mm) lead length P.C.B. Mounted. 1.0A SILICON RECTIFIEROthers with the same to data sheet: 1N4001-T3, 1N4001-TB, 1N4002-T3, 1N4002-TB, 1N4003-T3 Page 2Silicon SinglesOthers with the same file to datasheet: 1N4001, 1N4002, 1N4003, 1N4004, 1N4005 1N4005 3Standard RectifiersOthers with the same file for datasheet: 1N4001-B, 1N4001-T, 1N4002-B, 1N4002-T, 1N4003-B Page 4General Purpose Rectifier, VRRM=1000V, VR=1000V, IO=1AOthers with the same file for datasheet: 1N4001-G, 1N4002-G, 1N4003-G, 1N4004-G, 1N4005-G Page 5Standard RectifiersOthers with the same file for datasheet: 1N4001-B, 1N4001-T, 1N4002-B, 1N4002-T, 1N4003-B Page 61.0A SILICON RECTIFIEROthers with the same file for datasheet: 1N4001, 1N4001-T3, 1N4001-TB, 1N4002, 1N4002-T3 Page 71.0A SILICON RECTIFIEROthers with the same file for datasheet: 1N4001, 1N4001-T3, 1N4001-TB, 1N4002, 1N4002-T3 Page 8 1N4007/L manufactured by: 1N4007-TB View 1N4007/L to our catalog 1N4007A © 2020 - Datasheet Catalog com 1N4001 THRU 1N4007 GENERAL PURPOSE PLASTIC SILICON RECTIFIER REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.0 AMPERE FEATURES · Low pretension · High power capacity · High capacity · High surge current capacity · Exceeds environmental standards for MIL-S-19500/228 DO-41 MECHANICAL DATAEtui: Molded plastic, DO-41 Epoxy: UL 94V-O rate flame retardant Lead: Axial wires, solderable per MIL-STD-202, method 208 guaranteed polarity: Color band denotes cathode-rear mounting position: Any weight: 0.012oz, 0.33gram dimensions in inches and (millimeters) Maximum ratings and electrical properties Ratings at 25 ° C ambient temperature, unless otherwise specified. 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Mounted. Your requires pages are not open by impact Cause: Connect this pages via direct deep link alldatasheet.com is free datasheet search site. You can use All Semiconductor DataSheet in Alldatasheet, with no fee and No registration. If you have any questions about using our please contact benjamin@alldatasheet.com . We are always welcome to your contact. Contact. Contact.

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