Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

GENERAL PURPOSE SILICON RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- Open Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 ℃/10 seconds at terminals

Mechanical Data

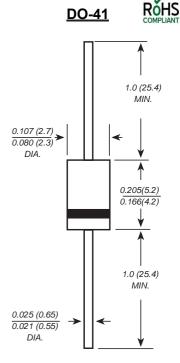
Case: JEDEC DO-41 Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Marking Code		MDD 1N4001							
Maximum repetitive peak reverse voltage	VRMM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=110 ℃	l(AV)	1.0							А
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	Ігѕм	30							А
Maximum instantaneous forward voltage at 1.0A	VF	1.10							V
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=100℃	lr	5.0 50.0							μΑ
Typical junction capacitance (NOTE 1)	Сл	15.0							pF
Typical thermal resistance (NOTE 2)	RθJA	65.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C.

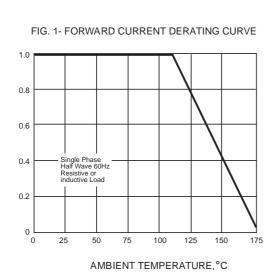
- 2.Mounted on 10cm x 10cm x 1mm copper pad area
- 3. The typical data above is for reference only.

DN:T19815A0

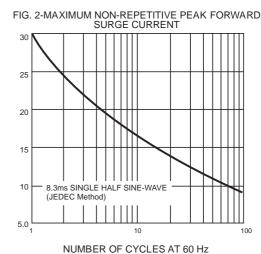
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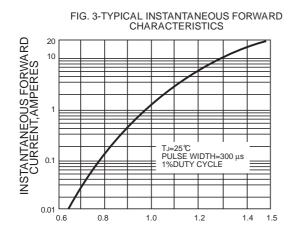
Ratings And Characteristic Curves



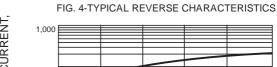


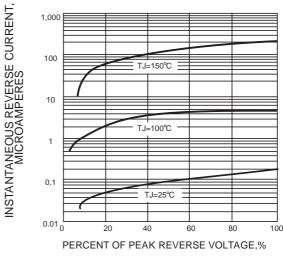


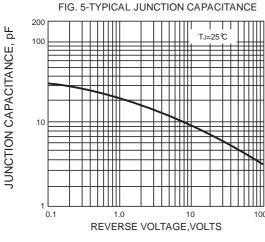


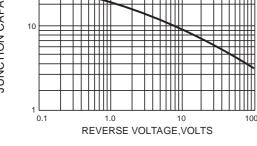












TRANSIENT THERMAL IMPEDANCE, °C.W FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE 100 10 0.01 0.1 100

t,PULSE DURATION,sec.

The curve above is for reference only.

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