

New

Electronic Components International ©

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1N4001GPP THRU 1N4007GPP

DKS

1 AMP. GLASS PASSIVATED RECTIFIER

FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability and high reliability
- Easily cleaned with Freon, alcohol, Chloroethene and similar solvents
- The plastic material carries U/L recognition 94V-0

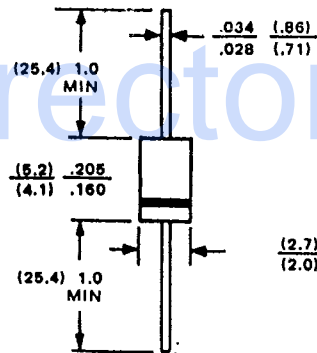
MECHANICAL DATA

Case: JEDEC DO-41, molded Plastic
Terminals: Plated axial leads, solderable per MIL-STD-202 Method 208
Polarity: Color band denotes cathode end
Weight: 0.012 ounce, 0.3 gram
Mounting position: Any

VOLTAGE RANGE
50 to 1000 Volts

CURRENT
1.0 Ampere

DO-41



All dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz. resistive or inductive load.
For capacitive load, derate current by 20%.

	1N4001 GPP	1N4002 GPP	1N4003 GPP	1N4004 GPP	1N4005 GPP	1N4006 GPP	1N4007 GPP	UNITS
* Maximum recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
* Maximum RMS Voltage	35	70	140	280	420	560	700	V
* Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
* Maximum Average Forward Rectified Current 3/8" Lead Length at T _A = 75°C	1.0							A
* Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
* Maximum Forward Voltage at 1.0A DC	1.0							V
* Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 75°C							5.0 50.0 μA μA
Typical Junction Capacitance (Note 1)	20							pF
Typical Thermal Resistance (Note 2)	50							°C/W
Operating Temperature Range	-65 to +175							°C
Storage Temperature Range	-65 to +175							°C

NOTES: 1. As measured on a Boonton Capacitance Bridge, Model 75A-S8 at 1.0 MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Ambient.
• JEDEC registered values.

NOTE: Special Silicon Rectifier are also available.



**RATING AND CHARACTERISTIC CURVES
1N4001 thru 1N4007**

Fig. 1 – TYPICAL FORWARD CHARACTERISTICS.

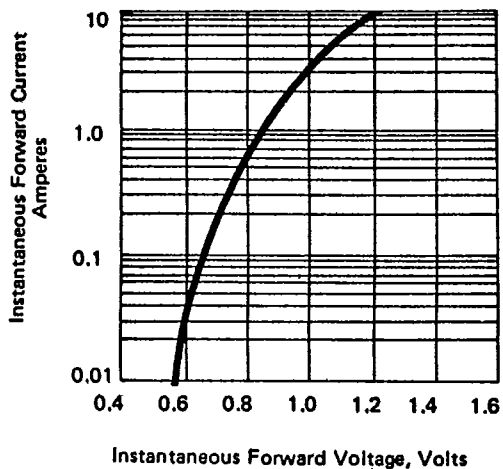


Fig. 2 – JUNCTION CAPACITANCE (See Application Note 1).

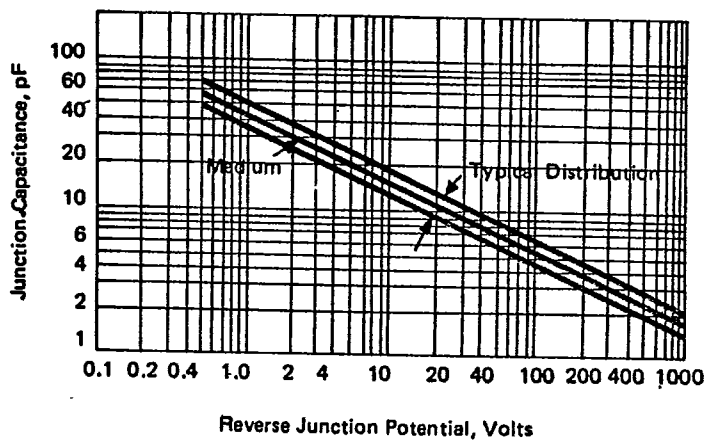


Fig. 3 – MAXIMUM OVERLOAD SURGE-CURRENT

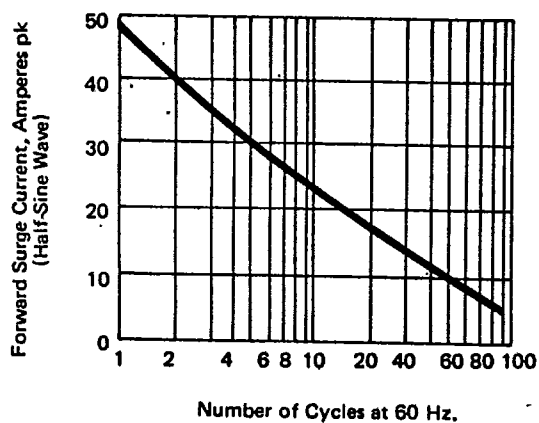


Fig. 4 – FORWARD DERATING CURVE

