1N4001G THRU 1N4007G

SILICON RECTIFIER

FEATURES

- Glass Passivated chip junction
- Low forward voltage drop
- High current capability
- High capability
- High surge current capability
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, DO-41

Epoxy: UL 94V-O rate flame retardant

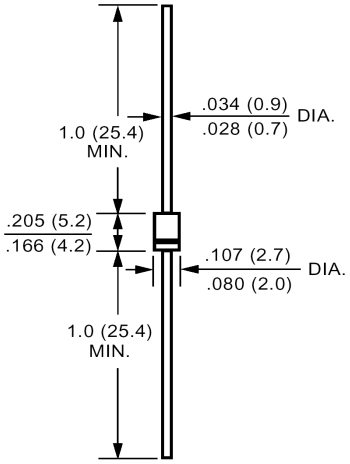
Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.012ounce, 0.33gram

DO-41



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=75℃	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							Amp
Maximum Forward Voltage at 1.0A DC and 25℃	V_F	1.1							Volts
Maximum Full Load Reverse Current Full Cycle Average at 75℃ Ambient		30							uAmp
Maximum Reverse Current at T_A=25℃	I_R	5.0							uAmp
at Rated DC Blocking Voltage T_A=100℃		500							
Typical Junction Capacitance (Note 1)	C_J	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							℃/W
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	Tstg	-55 to +150							℃

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.

version: 02
http://www.trr-jx.com
Download from alldatasheet.com
广东钜兴电子科技有限公司
GUANGDONG JUXING ELECTRONICE TECHNOLOGY., LTD

RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

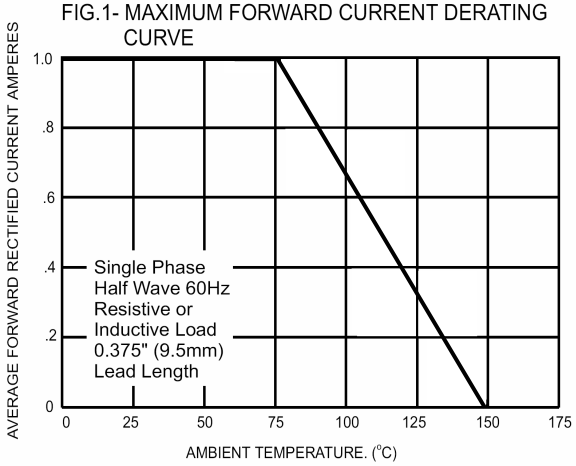


FIG.2- TYPICAL FORWARD CHARACTERISTICS

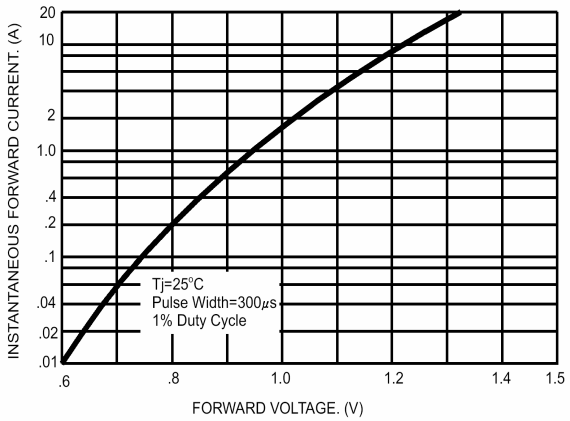


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

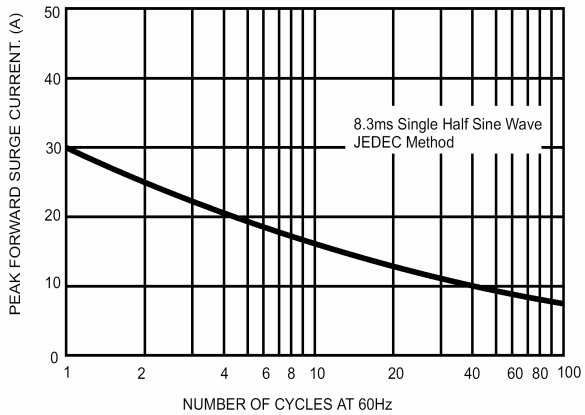


FIG.4- TYPICAL JUNCTION CAPACITANCE

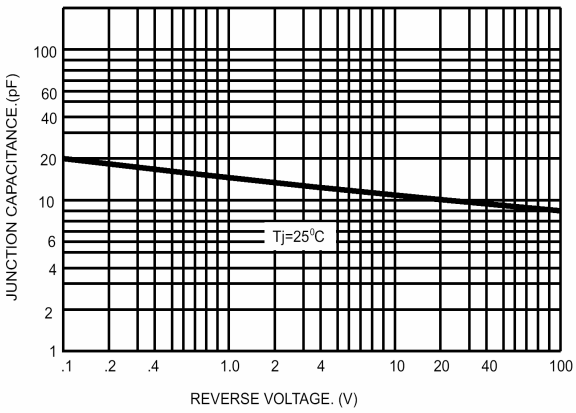
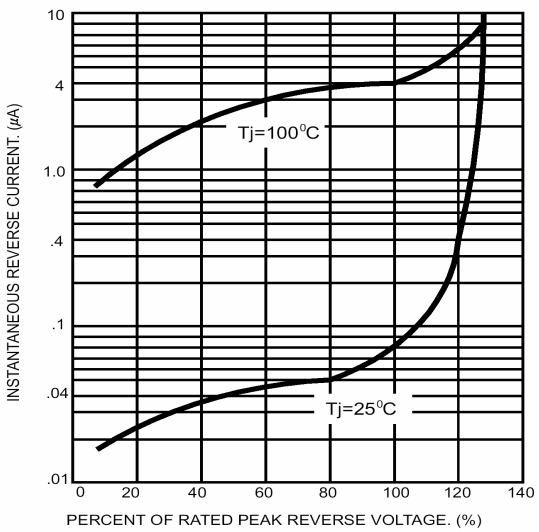


FIG.5- TYPICAL REVERSE CHARACTERISTICS



http://www.trr-jx.com
Download from alldatasheet.com
广东钜兴电子科技有限公司
GUANGDONG JUXING ELECTRONICE TECHNOLOGY., LTD