



SEMICONDUCTOR

DATA SHEET

1N4933G~1N4937G

FAST RECOVERY GLASS PASSIVATION RECTIFIER

VOLTAGE- 50 to 600 Volts CURRENT - 1.0 Amperes



FEATURES

- High current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Void-free Plastic in a DO-41 package.
- Exceeds environmental standards of MIL-S-19500/228
- 1 ampere operation at TA=55°C with no thermal runaway.
- Fast switching for high efficiency.
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request.

MECHANICAL DATA

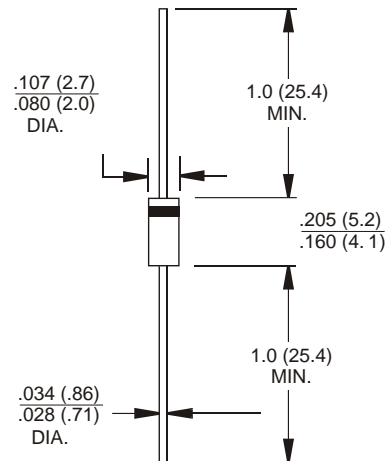
- Case: Molded plastic, DO-41
- Terminals: Axial leads, solderable to MIL-STD-202, Method 208
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.012 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

DO-41 Unit:inch(mm)



	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	UNT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	V
Maximum RMS Voltage	35	70	140	280	420	V
Maximum DC Blocking Voltage	50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55°C	1.0					A
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load(JEDEC method)	30.0					A
Maximum Forward Voltage at 1.0A	1.2					V
Maximum Full Load Reverse Current Full Cycle Average .375",9.5mm Lead Length at TA=25°C	5.0					μA
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=100°C	100					μA
Maximum Reverse Recovery Time(Note 1)	200					ns
Typical Junction capacitance (Note 2)	12					pF
Typical Junction Resistance(Note 3) RθJA	100					°C/ W
Operating and Storage Temperature Range TJ,TSTG	-55 to +150					°C

NOTES:1. Reverse Recovery Test Conditions: IF=.5A, IR=1A, Irr=.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted

RATING AND CHARACTERISTIC CURVES

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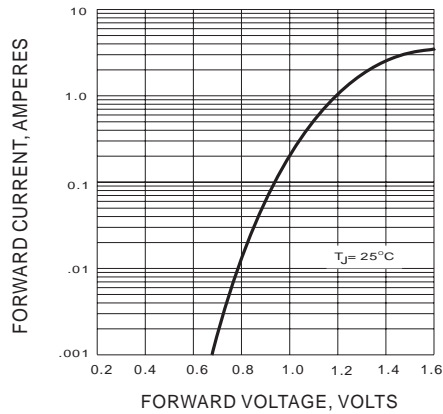


FIG.1 FORWARD CHARACTERISTIC

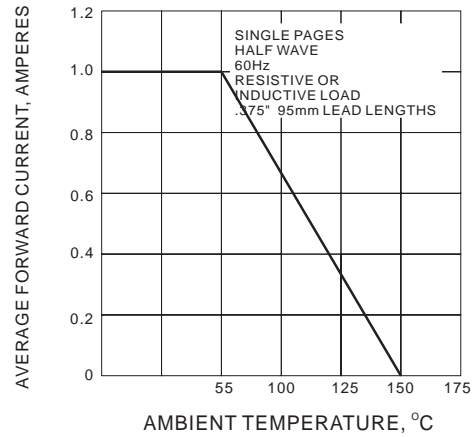


FIG.2 FORWARD CURRENT DERATING CURVE

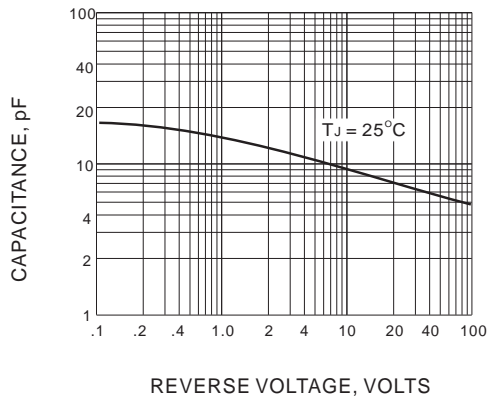


FIG.3 TYPICAL JUNCTION CAPACITANCE

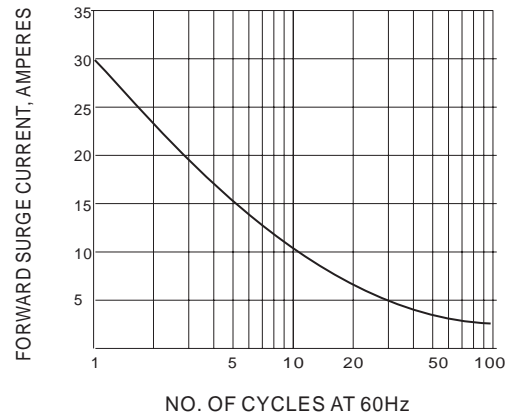


FIG.4 PEAK FORWARD SURGE CURRENT