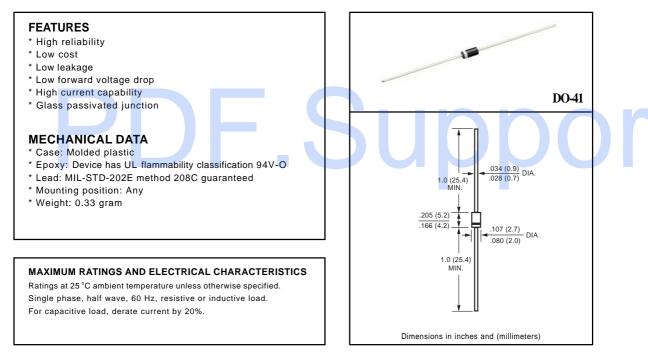




GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | 1N4001G | 1N4002G | 1N4003G | 1N4004G | 1N4005G | 1N4006G | 1N4007G | UNITS |
|--|----------|--------------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | Vrms | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at TA = 75°C | lo | 1.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | Ігѕм | 30 | | | | | | | Amps |
| Typical Junction Capacitance (Note) | CJ | 15 | | | | | | | pF |
| Typical Thermal Resistance | Rθja | 50 | | | | | | °C/W | |
| Typical Thermal Resistance | RθJC | 15 | | | | | | | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to + 150 | | | | | | | °C |

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | 1N4001G 1N4002G 1N4003G 1N4004G 1N4005G 1N4006G 1N4007G | UNITS | |
|---|-------------|--------|---|-------|--|
| Maximum Instantaneous Forward Voltage at 1.0A DC | | Vf | 1.1 | Volts | |
| Maximum DC Reverse Current | @TA = 25°C | | 5.0 | uAmps | |
| at Rated DC Blocking Voltage | @TA = 100°C | | 50 | | |
| Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C | | IR | 30 | | |

NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)

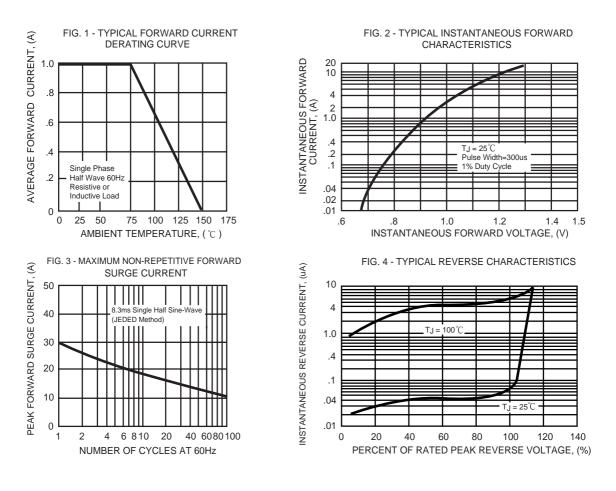


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

