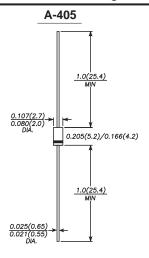
1N4001SG THRU 1N4007SG

GLASS PASSIVATED SILICON RECTIFIER

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



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension
- Glass passivated chip junction

MECHANICAL DATA

Case: A-405 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

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 current derate by 20%.

1N 1N 1N SYMBOLS UNITS 4001SG 4003SG 4004SG 4005SG 4007SG 4002SG 4006SG Maximum repetitive peak reverse voltage 50 100 200 400 600 800 1000 ٧ VRRM Maximum RMS voltage 35 70 140 280 420 560 700 V VRMS 50 100 200 400 600 800 1000 V Maximum DC blocking voltage VDC Maximum average forward rectified current I(AV) 1.0 Α 0.375"(9.5mm) lead length at Ta=75°C Peak forward surge current 30.0 8.3ms single half sine-wave superimposed on I_{ESM} Α rated load (JEDEC Method) Maximum instantaneous forward voltage at 1.0A VF 1.1 Maximum DC reverse current Ta=25°C 5.0 μА lκ 50.0 at rated DC blocking voltage Ta=100℃ Typical junction capacitance (NOTE 1) Сı 15.0 pF °C/W Typical thermal resistance (NOTE 2) $R_{\theta JA}$ 50.0 Operating junction and storage temperature range °C TJ, TSTG -55 to +150

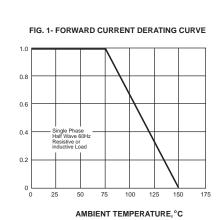
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

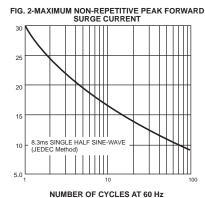


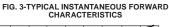
RATINGS AND CHARACTERISTIC CURVES 1N4001SG THRU 1N4007SG

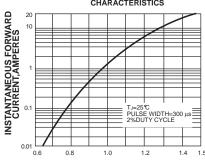


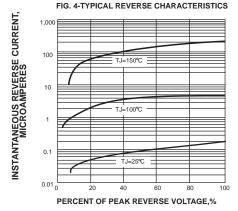




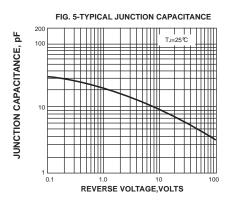


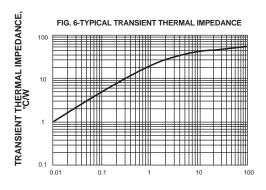






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t, PULSE DURATION, sec.

