

PLASTIC SILICON RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 3.0 Amperes

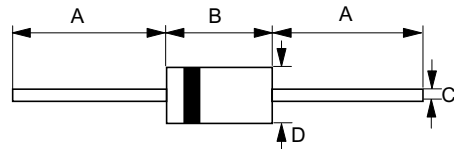
FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.2 grams
- Mounting position : Any

DO-201AD



| DO-201AD | | |
|------------------------------|------|------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 7.20 | 9.50 |
| C | 1.20 | 1.30 |
| D | 4.80 | 5.30 |
| All Dimensions in millimeter | | |

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%

| CHARACTERISTICS | SYMBOL | 1N | 1N | 1N | 1N | 1N | 1N | 1N | 1N | 1N | UNIT |
|---|-------------------|-------------|------|------|------|------|------|------|------|------|------|
| | | 5400 | 5401 | 5402 | 5403 | 5404 | 5405 | 5406 | 5407 | 5408 | |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @T _A =75°C | I _(AV) | 3.0 | | | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD) | I _{FSM} | 200 | | | | | | | | | A |
| Maximum forward Voltage at 3.0A DC | V _F | 1.1 | | | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =100°C | I _R | 5 50 | | | | | | | | | uA |
| Typical Junction Capacitance (Note 1) | C _J | 50 | | | | | 35 | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJA} | 20 | | | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | | | °C |

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES

