

# New Jersey Semi-Conductor Products, Inc.

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## 1N45 GOLD BONDED GERMANIUM DIODE

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### FEATURES

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

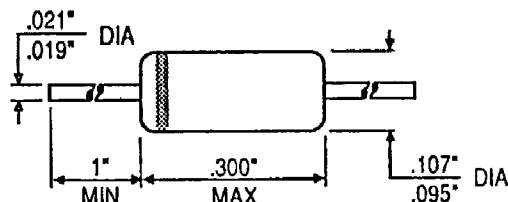
### ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

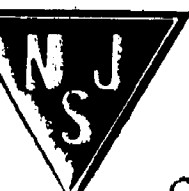
### ELECTRICAL CHARACTERISTICS

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 410 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 3 mA       |     | 1   | V    | 25 °C |

### MECHANICAL



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



Quality Semi-Conductors