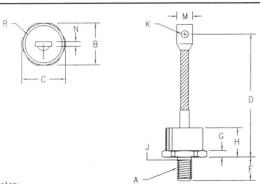
New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

Silicon Power Rectifier 1N3161 — 1N3177



| Dim | Inches | | Millimeter | | |
|-----|------------|---------|------------|---------|-------|
| | Minimum | Maximum | Minimum | Maximum | Notes |
| Α | 3/4-16 UNF | | | | 1 |
| В | 1.218 | 1.250 | 30.93 | 31.75 | |
| C | 1.350 | 1.375 | 34.29 | 34.93 | |
| D | 5.30 | 5.90 | 134.62 | 149.86 | |
| F | .793 | .828 | 20.14 | 21.03 | |
| G | .300 | .325 | 7.62 | 8.25 | |
| H | | .900 | | 22.86 | |
| J | .660 | .745 | 16.76 | 19.02 | 2 |
| K | .338 | .348 | 8.58 | 8.84 | Dia. |
| M | .665 | .755 | 16.89 | 19.17 | |
| N | .125 | .172 | 3.18 | 4.37 | |
| R | | 1.10 | | 27.94 | Dia. |

Notes:

- 1. Full threads within 2 1/2 threads.
- Standard Polarity: Stud is Cathode Reverse Polarity: Stud is Anode

| | | | Peak Reverse | | |
|------------------|------------|-------------|--------------|--|--|
| Catalog Nur | mber | | Voltage | | |
| 1N3161 | | | 50V | | |
| 1N3162 | | | 100V | | |
| 1N3163 | | | 150V | | |
| 1N3164 | | | 200V | | |
| 1N3165 | | | 250V | | |
| 1N3166 1N3167 | | | 300V 350V | | |
| 1N3168 | | | 400V | | |
| 1N3169 | | | 500V | | |
| 1N3170 | | | 600V | | |
| 1N3171,A | | | 700V | | |
| 1N3172,A | | | 800V | | |
| 1N3173,A | | | 900V | | |
| 1N3174,A | | | 1000V | | |
| 1N3175 | | | 1200V | | |
| 1N3176 | | | 1400V | | |
| 1N3177 | | | 1600V | | |
| | R suffix t | for reverse | | | |

D0205AB (D09)

- Glass to metal seal construction
- High surge current capability
- Glass Passivated Die
- · Rugged construction
- VRRM 50-1600 Volts

Electrical Characteristics

 Max average forward current
 F(AV)
 240 Amps

 Max surge current
 FSM
 3000 Amps

 Max. I²t capability for fusing
 2t
 37,480²S

 Max peak forward voltage
 VFM
 1.25 Volts

 Max peak reverse current
 IRRM
 10mA

 Max peak reverse current
 IRRM
 75 μA

 Max recommended operating frequency
 7.5 kHz

Thermal and Mechanical Characteristics

Operating junction temp range Storage temperature range Maximum thermal resistance Typical thermal resistance (greased) Max mounting torque TSTG ROJC ROCS -65°C to 200°C -65°C to 200°C 0.20°C/W Junction to case .08°C/W Case to sink 300-325 inch pounds 8.5 ounces (240 grams) typical

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 Sami-Canductor

