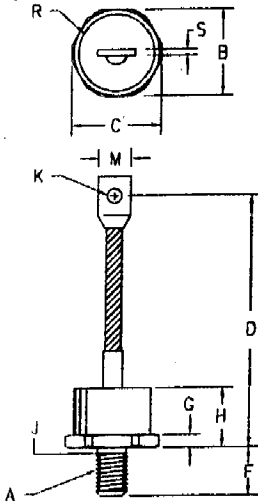


Silicon Power Rectifier 1N4044-1N4056



| Dim. | Inches | | Millimeter | | Notes |
|------|---------|---------|------------|---------|-------|
| | Minimum | Maximum | Minimum | Maximum | |
| A | | | 3/4-16 UNF | | 1 |
| B | 1.218 | 1.250 | 30.94 | 31.75 | |
| C | 1.350 | 1.375 | 34.29 | 34.93 | |
| D | 5.300 | 5.900 | 134.62 | 149.86 | |
| F | .793 | .828 | 20.14 | 21.03 | |
| G | .300 | .325 | 7.62 | 8.25 | |
| H | --- | .900 | --- | 22.86 | |
| J | .660 | .749 | 16.76 | 19.02 | 2 |
| K | .338 | .348 | 8.59 | 8.84 | Dia |
| M | .665 | .755 | 16.89 | 19.18 | |
| R | --- | 1.100 | --- | 27.94 | Dia |
| S | .050 | .120 | 1.27 | 3.05 | |

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

DO205AB (DO-9)

| Other JEDEC Types | | | | | Peak Reverse Voltage |
|-------------------|--------|--------|--------|--------|----------------------|
| 1N4044 | 1N1860 | 1N1870 | 1N2054 | 1N3260 | 50V |
| 1N4045 | 1N1861 | 1N1871 | 1N2055 | 1N3261 | 100V |
| 1N4046 | 1N1862 | 1N1872 | 1N2056 | 1N3262 | 150V |
| 1N4047 | 1N1863 | 1N1873 | 1N2057 | 1N3263 | 200V |
| 1N4048 | | | 1N2058 | 1N3264 | 250V |
| 1N4049 | 1N1864 | 1N1874 | 1N2059 | 1N3265 | 300V |
| | | | 1N2060 | 1N3266 | 350V |
| 1N4050 | 1N1865 | 1N1875 | 1N2061 | 1N3267 | 400V |
| | | | 1N2062 | | 450V |
| 1N4051 | 1N1866 | 1N1876 | 1N2063 | 1N3268 | 500V |
| 1N4052 | | | 1N2064 | 1N3269 | 600V |
| 1N4053 | | | 1N2065 | 1N3270 | 700V |
| 1N4054 | | | 1N2066 | 1N3271 | 800V |
| 1N4055 | | | 1N2067 | 1N3272 | 900V |
| 1N4056 | | | 1N2068 | 1N3273 | 1000V |
| | | | | 1N3274 | 1200V |
| | | | | 1N3744 | 1400V |

Add R suffix for reverse polarity

- Glass to metal seal construction
- High surge current capability
- Soft recovery
- Glass passivated die
- VRRM 50 to 1400 Volts

Electrical Characteristics

| | | |
|---------------------------------|--|--|
| Average forward current | IF(AV) 275 Amps | TC = 120°C, square wave, RθJC = 0.18°C/W |
| Maximum surge current | IFSM 5000 Amps | 8.3ms, half sine, TJ = 190°C |
| Max I ² t for fusing | I ² t 104125 A ² s | 8.3ms |
| Max peak forward voltage | VFM 1.3 Volts | IFM = 300A; TJ = 25°C* |
| Max peak reverse current | IRM 10 mA | VRRM, TJ = 150°C |
| Max reverse current | IRM 75 uA | VRRM, TJ = 25°C |

*Pulse test: Pulse width 300 μsec. Duty cycle 2%

Thermal and Mechanical Characteristics

| | | |
|--------------------------------------|------|--------------------------------|
| Storage temperature range | TSTG | -65°C to 190°C |
| Operating junction temp range | TJ | -65°C to 190°C |
| Maximum thermal resistance | RθJC | 0.18°C/W junction to case |
| Typical Thermal Resistance (greased) | RθCS | .08°C/W case to sink |
| Mounting torque | | 300-325 inch pounds |
| Weight | | 8.5 ounces (240 grams) typical |

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