

# New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.  
SPRINGFIELD, NEW JERSEY 07081  
U.S.A.

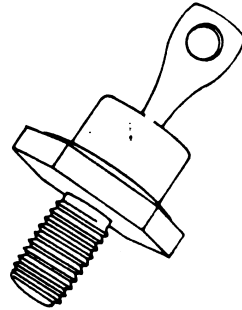
TELEPHONE: (201) 376-2922  
(212) 227-6005  
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**1N248C-50C**  
**1N1195A-98A**

## Rectifier

**Silicon**  
**20 A Types**

electrical ratings and specifications (60 cps, Resistive or Inductive Load)

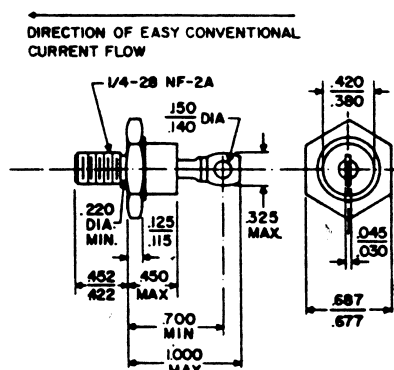


|                                                                                                | 1N248C              | 1N249C | 1N250C | 1N1195A | 1N1196A | 1N1197A | 1N1198A |       |
|------------------------------------------------------------------------------------------------|---------------------|--------|--------|---------|---------|---------|---------|-------|
| Max. Allow. Peak Reverse Voltage (Repetitive)*                                                 | 55                  | 110    | 220    | 300     | 400     | 500     | 600     | Volts |
| Max. Allow. RMS Voltage                                                                        | 39                  | 77     | 154    | 212     | 284     | 355     | 424     | Volts |
| Max. Allow. DC Blocking Voltage**                                                              | 50                  | 100    | 200    | 300     | 400     | 500     | 600     | Volts |
| Max. Allow. Forward Current (Single Phase or Three Phase - 150°C stud temp.)                   | ← 20 Amp DC →       |        |        |         |         |         |         |       |
| Peak Recurrent Forward Current                                                                 | ← 90 Amp →          |        |        |         |         |         |         |       |
| Max. Allow. Peak One-Cycle Surge Current                                                       | ← 350 Amp →         |        |        |         |         |         |         |       |
| Max. Full Load Voltage Drop (Full Cycle Average when operated at Max. I <sub>DC</sub> and PRV) | ← 0.6 Volts →       |        |        |         |         |         |         |       |
| Max. Leakage Current at Full Load (Single Phase, Full Cycle Average, 150°C stud temp.)         | 3.8                 | 3.6    | 3.4    | 3.2     | 2.5     | 2.2     | 1.5     | ma.   |
| Junction Operating and Storage Temp. Range                                                     | ← -65°C to +175°C → |        |        |         |         |         |         |       |
| Maximum Stud Torque                                                                            | 30 inch-pounds.     |        |        |         |         |         |         |       |

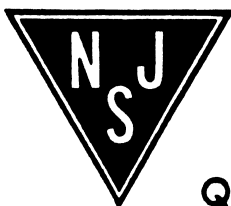
\*Maximum voltages apply with a heat sink thermal resistance of 12°C/watt or less at maximum rated junction temperature.

\*\*Maximum voltages apply with a heat sink thermal resistance of 5°C/watt or less at maximum rated junction temperature.

### OUTLINE DRAWING



NOTES: (1) UNIT WEIGHT - .5 OZ.  
(2) MICA WASHER IN MOUNTING KIT MAY ADD APPROX. 2.5°C/WATT THERMAL RESISTANCE STUD TO HEATSINK



**Quality Semi-Conductors**

COMPLIES WITH  
EIA REGISTERED OUTLINE DO-5