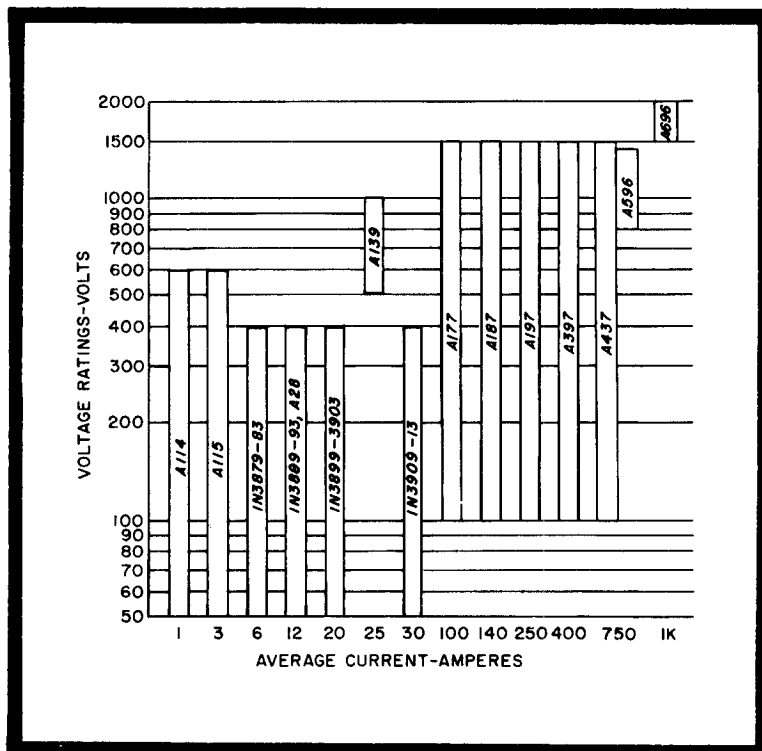
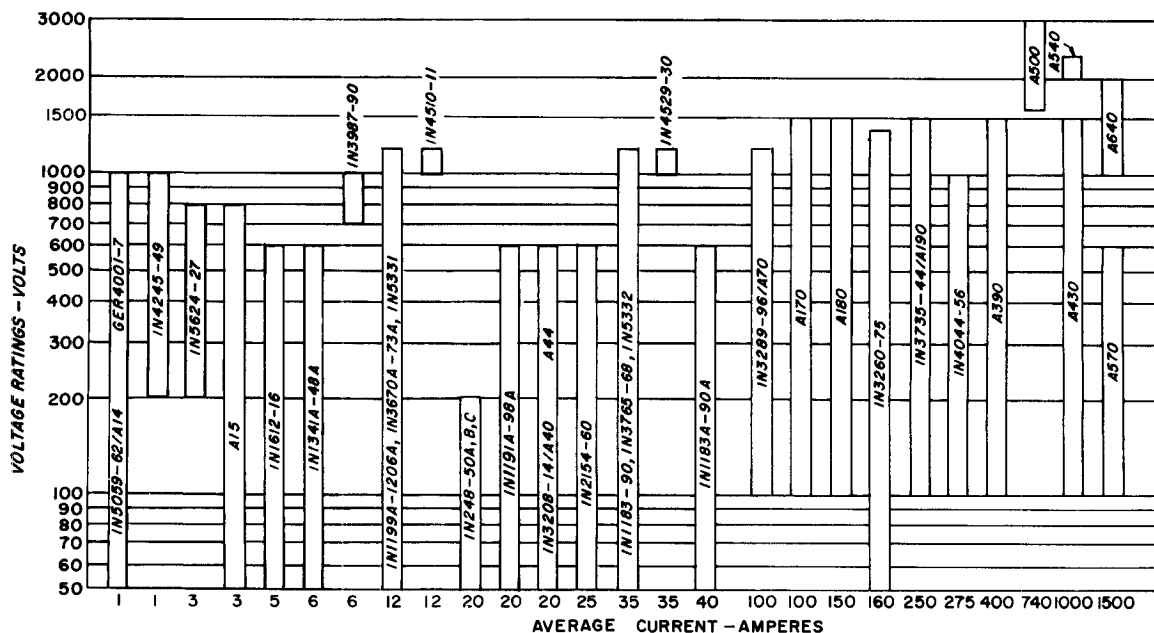


FAST RECOVERY RECTIFIERS SELECTOR GUIDE



STANDARD RECTIFIERS SELECTOR GUIDE



Silicon Rectifier

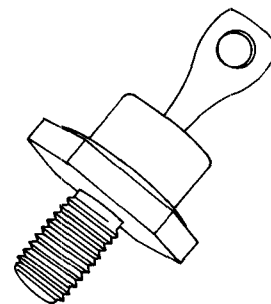
1N248C-50C

1N1195A-98A

20 A Types

These stud mounted diffused junction silicon rectifiers are designed for all rectifier applications in the 20 ampere range. A high junction temperature rating and an extremely low forward voltage drop and thermal impedance permit high current operation with minimum space requirements. These rectifiers may be mounted directly to a chassis or a fin or may be electrically insulated from the heat sink by using the mica washer insulating kit

General Electric research, advanced development and product design have resulted in a highly efficient rectifying junction. This feature, plus a mechanical design employing high temperature hard solders and welds for all internal and external joints and seals, which eliminates common sources of thermal fatigue failure, has produced a silicon rectifier with outstanding reliability under all operating conditions.



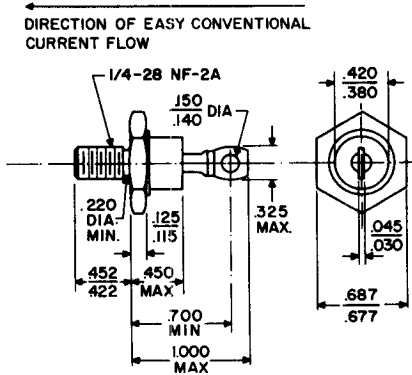
electrical ratings and specifications (60 cps, Resistive or Inductive Load)

	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_{DC} 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.

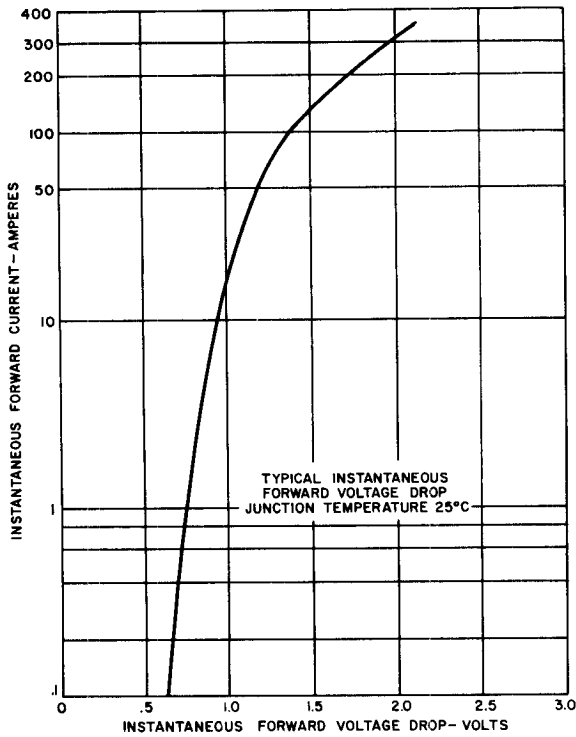
OUTLINE DRAWING



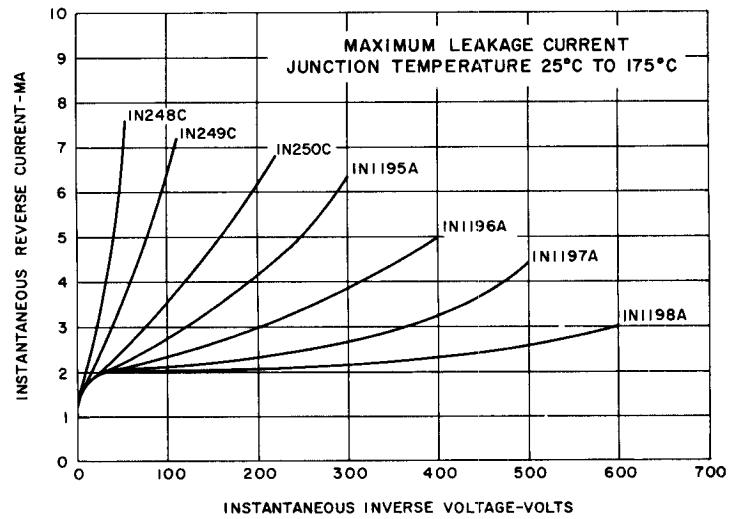
NOTES: (1) UNIT WEIGHT -.5 OZ.
(2) MICA WASHER IN MOUNTING KIT MAY ADD APPROX 2.5°C/WATT THERMAL RESISTANCE STUD TO HEATSINK

*AVAILABLE UPON REQUEST.

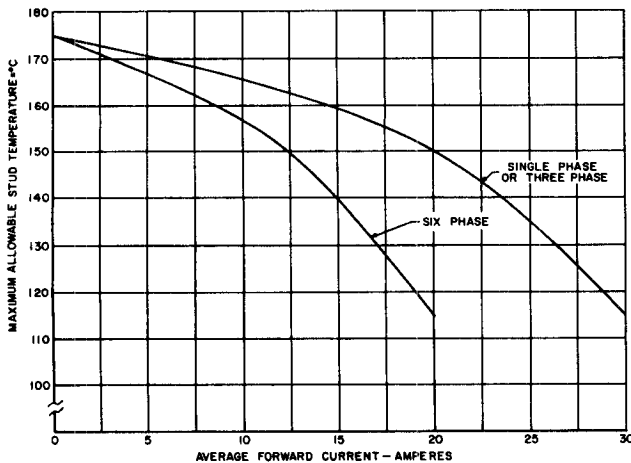
COMPLIES WITH
EIA REGISTERED OUTLINE DO-5



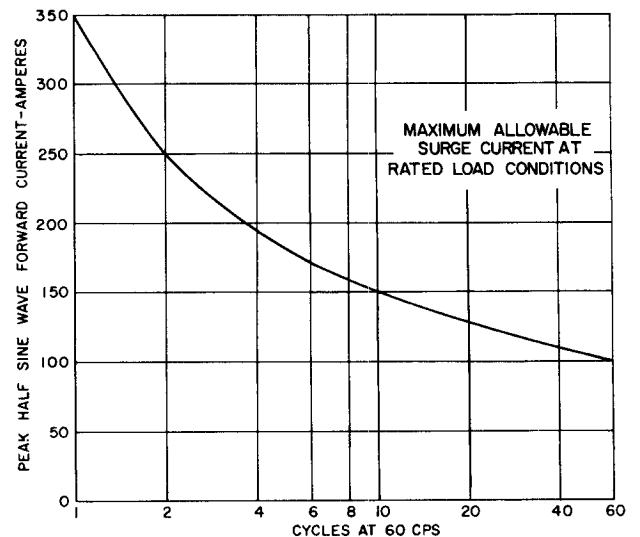
I. TYPICAL FORWARD CHARACTERISTICS



II. REVERSE CHARACTERISTICS



III. MAXIMUM ALLOWABLE STUD TEMPERATURE



IV. SURGE RATING