



Rectifiers

1N1341B 1N1342B 1N1346B
 1N1344B 1N1347B
 1N1345B 1N1348B

These silicon rectifiers are intended for use in generator-type power supplies for mobile equipment; in dc-to-dc converters, power supplies for dc motors, transmitters, rf generators, welding equipment, and electroplating systems; in dc-blocking service, magnetic amplifiers, and in a wide variety of other applications in industrial equipment.

HALF-WAVE RECTIFIER SERVICE

*Absolute-Maximum Ratings for Supply Frequency of 60 Hz,
 Single-Phase Operation with Resistive or Inductive Load*

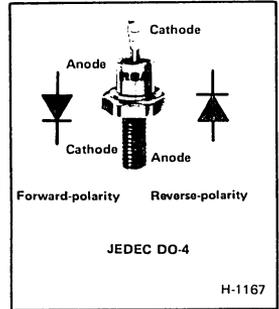
| | 1N1341B | 1N1342B | 1N1344B | 1N1345B | 1N1346B | 1N1347B | 1N1348B |
|---|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| PEAK REVERSE VOLTS | 50 | 100 | 200 | 300 | 400 | 500 | 600 |
| TRANSIENT REVERSE VOLTS, NON-REPETITIVE (5-msec max. duration and case temperature range of 0 to 200° C.) | 100 | 200 | 350 | 450 | 600 | 700 | 800 |
| RMS SUPPLY VOLTS | 35 | 70 | 140 | 212 | 284 | 355 | 424 |
| DC BLOCKING VOLTS | 50 | 100 | 200 | 300 | 400 | 500 | 600 |
| AVERAGE FORWARD AMPERES: At 150° C case temperature At other case temperatures | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| PEAK RECURRENT AMPERES | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| PEAK SURGE AMPERES: ^a One-half cycle, sine wave | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
| CASE-TEMPERATURE RANGE: Operating and Storage | ← -65 to +200° C → | | | | | | |
| STUD TORQUE: Recommended Maximum (DO NOT EXCEED) | ← 15 in-lb → ← 25 in-lb → | | | | | | |
| Characteristics: | | | | | | | |
| Max. Forward Voltage Drop (Volts) | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 |
| Max. Reverse Current, (Ma.): Dynamic Static | 0.45 0.004 | 0.45 0.004 | 0.45 0.004 | 0.45 0.004 | 0.45 0.004 | 0.45 0.004 | 0.45 0.004 |

^a Superimposed on device operating within the maximum voltage, current, and temperature ratings and may be repeated after sufficient time has elapsed for the device to return to the presurge thermal-equilibrium conditions.

^b Average value for one complete cycle at case temperature of 150° C and at maximum rated voltage and average forward current.

^c DC value, at maximum peak reverse voltage, and case temperature (°C) = 25.

Stud-Mounted
Types for Industrial Power Supplies



- Available in reverse-polarity versions: 1N1341RB, 1N1342RB, 1N1344RB, 1N1345RB, 1N1346RB, 1N1347RB, 1N1348RB
- Designed to meet stringent mechanical and environmental specifications
- Diffused-junction process — exceptional uniformity and stability of characteristics
- Hermetic seals
- Low thermal resistance
- Low forward voltage drop
- High output current: up to 15 amperes — 6 rectifiers in 3-phase, full-wave bridge circuit
up to 12 amperes — 4 rectifiers in single-phase full-wave bridge circuit
- Welded construction
- Low leakage current
- JEDEC D0-4 outline

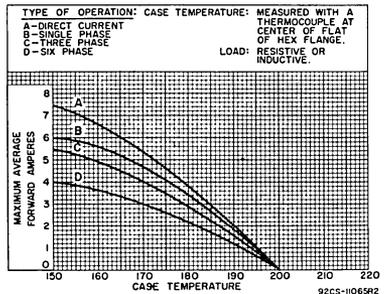


Fig. 1