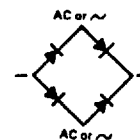


# Bridge Rectifiers (silicon)

## Single-Phase

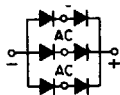


| Peak Reverse Voltage (PRV Volts)             | IO, Average Rectified Forward Current (Amps) |         |        |         |       |
|--|--|---------|--------|---------|-------|
|  | 1 A  | 1.5 A   | 2 A    | 4 A     |       |
| 100  |  |         | ECG166 |         |       |
| 200  |  |         | ECG167 | ECG5309 |       |
| 400  |  | ECG5304 | ECG168 |         |       |
| 600  | ECG5332                                      | ECG5305 | ECG169 | ECG5310 |       |
| 800  |  | ECG5306 |        | ECG5319 |       |
| 1000   | ECG5334                                      | ECG5307 | ECG170 | ECG5311 |       |
| Peak Forward Surge Current (Amps)            | 50   | 50      | 60     | 250     |       |
| Max. Forward Voltage Per. Element VF (Volts) | 1.0  | 1.0     | 1.0    | 1.0     |       |
| TA at Rated IO (°C) Max                      | +40  | +25     | +25    | +40     |       |
| Fig. No.                                     | Z21  | Z22     | Z23    | Z23-1   | Z268A |

| Peak Reverse Voltage (PRV Volts)             | IO, Average Rectified Forward Current (Amps) |         |         |         |         |         |
|--|--|---------|---------|---------|---------|---------|
|  | 6 A  | 8 A     | 25 A    | 40 A    | 80 A    | 100 A   |
| 100  |  | ECG5312 |         |         |         |         |
| 200  | ECG5329                                      | ECG5313 | ECG5322 | ECG5340 |         |         |
| 400  |  | ECG5314 | ECG5324 |         |         |         |
| 600  | ECG5330                                      | ECG5315 | ECG5326 | ECG5342 | ECG5346 | ECG5348 |
| 800  |  | ECG5316 | ECG5327 |         |         |         |
| 1000   | ECG5331                                      | ECG5317 | ECG5328 | ECG5344 |         |         |
| Peak Forward Surge Current (Amps)            | 200  | 125     | 300     | 400     | 800     | 1000    |
| Max. Forward Voltage Per. Element VF (Volts) | 1.0  | 1.2     | 1.2     | 1.1     | 1.6     | 1.4     |
| TA at Rated IO (°C) Max                      | +40  | +50     | +60     | +60     | +85     | +80     |
| Fig. No.                                     | Z68  | Z24     | Z25     |         | Z65     |         |

# Full Wave Rectifiers

## Three-Phase



| Peak Reverse Voltage (PRV Volts)                        | I <sub>o</sub> Average Rectified Forward Current (Amps) |         |
|---|---|---------|
|   | 60 A  | 100 A   |
| 200   |   |         |
| 400   |   |         |
| 600   | ECG5335   | ECG5338 |
| 800   |   |         |
| 1000  |   |         |
| Peak Forward Surge Current (Amps)                       | 500   | 800     |
| Max. Forward Voltage Per Element V <sub>F</sub> (Volts) | 1.25  | 1.25    |
| T <sub>c</sub> at Rated I <sub>o</sub> (°C) Max.        | +70   | +100    |
| Fig. No.  | Z66   |         |

## Standard Recovery

| Peak Reverse Voltage (PRV Volts)   | I <sub>o</sub> Average Rectified Forward Current (Amps) |
|--|---|
|  | 30 A (15 A/Leg)   |
| 200  | ECG6200   |
| 400  | ECG6202   |
| 600  | ECG6204   |
| IFM Surge (Per Diode)  | 250 A   |
| T <sub>c</sub> @ Rated I <sub>o</sub> Max (°C)                                   | +100  |
| Forward Voltage Drop @ Rated I <sub>o</sub> , V <sub>F</sub> (Volts) (Per Diode) | 1 Typ<br>1.2 Max  |
| Fig. No.   | Z43   |
| Package  | TO-3 Case/Cathode                                       |

## Fast Recovery

| Peak Reverse Voltage (PRV Volts)   | I <sub>o</sub> Average Rectified Forward Current (Amps) |
|--|---|
|  | 30 A (15 A/Leg)   |
| 200  | ECG6206   |
| 400  | ECG6208   |
| 600  | ECG6210   |
| IFM Surge (Per Diode)  | 150 A   |
| T <sub>c</sub> @ Rated I <sub>o</sub> Max (°C)                                   | +100  |
| Forward Voltage Drop @ Rated I <sub>o</sub> , V <sub>F</sub> (Volts) (Per Diode) | 1 Typ<br>1.4 Max  |
| Fig. No.   | Z43   |
| Package  | TO-3 Case/Cathode                                       |

## Ultra Fast Recovery

| Peak Reverse Voltage (PRV Volts)   | I <sub>o</sub> Average Rectified Forward Current (Amps) |         |                 |                |         |
|--|---|---------|-----------------|----------------|---------|
|  | 16 A (8 A/Leg)  |         | 30 A (15 A/Leg) |                |         |
| 200  | ECG6240   | ECG6244 |                 | ECG6246        |         |
| 400  |   |         |                 |                |         |
| 600  |   |         | ECG6241         |                | ECG6247 |
| IFM Surge (Per Diode)  | 100 A   | 200 A   | 100 A           | 200 A          | 150 A   |
| T <sub>c</sub> @ Rated I <sub>o</sub> Max (°C)                                   | +150  | +100    | +150            | +150           | +145    |
| Forward Voltage Drop @ Rated I <sub>o</sub> , V <sub>F</sub> (Volts) (Per Diode) | .90   | .95     | 1.5             | .85            | 1.5     |
| Reverse Recovery Time (ns)   | 35  | 35      | 50              | 35             | 60      |
| Fig. No.   | Z41B  |         |                 | Z41C           |         |
| Package  | TO-220  |         |                 | TO-3P (TO-218) |         |