DIODE(THREE PHASES BRIDGE TYPE) F30AA120/160 D

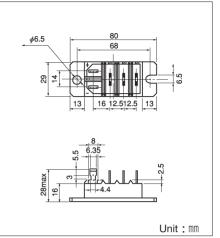


UL;E76102 (M)

Power Diode Module **DF30AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 30Amp (Tc=117 °C) Repetitive peak reverse voltage is up to 1,600V.

- TiMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab
 - (Applications)
 - AC. DC Motor Drive/AVR/Switching
 - -for three phase rectification

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Maximum Batings

| Maximum Ratings | | | | | |
|-----------------|-------------------------------------|-----------|-----------|--------|--|
| Symbol | Itom | Ratings | | | |
| | Item | DF30AA120 | DF30AA160 | - Unit | |
| VRRM | Repetitive Peak Reverse Voltage | 1200 | 1600 | V | |
| VRSM | Non-Repetitive Peak Reverse Voltage | 1300 | 1700 | V | |

| Symbol | Item | | Conditions | Ratings | Unit |
|--------|--------------------------------------|---------------|--|----------|----------|
| lD | Output current (D.C.) | | Three phase. full wave. Tc=117℃ | 30 | Α |
| IFSM | Surge Forward Current | | 1 cycle, 50/60Hz, peak value, non-repetitive | 270/300 | А |
| Tj | Junction Temperature | | | -40~+150 | °C |
| Tstg | Storage Temperature | | | -40~+125 | °C |
| Viso | Isolation Breakdown Voltage (R.M.S.) | | Main Terminal to case 1 minute | 2500 | V |
| | Mounting | Mounting (M6) | Recommended Value 2.5~3.9 (25~40) | 4.7 (48) | N∙m |
| | Torque | Terminal | Tub Terminal #250 | | (kgf·cm) |
| | Mass | | Typical Value | 90 | g |

Electrical Characteristics

| Symbol | Item | Conditions | Ratings | Unit |
|-----------|---------------------------------------|------------------------------------|---------|------|
| Irrm | Repetitive Peak Reverse Current, max. | Tj=150℃ at VRRM | 3.0 | mA |
| Vfm | Forward Voltage Drop, max. | IFM=30A, Tj=25°C Inst. measurement | 1.3 | V |
| Rth (j-c) | Thermal Impedance, max. | Junction to case | 0.42 | °C/W |

DF30AA120/160 TOP

Output Current vs.Power Dissipation, max. (Three phase, full wave)

