DIODE(THREE PHASES BRIDGE TYPE)

DF100BA40/80







UL;E76102 (M)

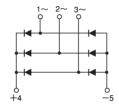
Power Diode Module **DF100BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 100 Amp (Tc = $102\,^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 800 V.

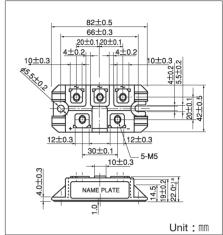
- TiMax=150 °C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C)

| Symbol | Itam | Ratings | | |
|--------|-------------------------------------|-----------|-----------|------|
| | Item | DF100BA40 | DF100BA80 | Unit |
| VRRM | Repetitive Peak Reverse Voltage | 400 | 800 | V |
| VRSM | Non-Repetitive Peak Reverse Voltage | 480 | 960 | V |

| Symbol | It | tem | Conditions | Ratings | Unit |
|------------------|--------------------------------------|---------------|---|-----------------|------------------|
| lo | Output Current (D.C.) | | Three phase full wave. Tc: 102 ℃ | 100 | А |
| IFSM | Surge Forward Current | | 1cycle, 50/60Hz, peak value, non-repetitive | 910/1000 | Α |
| l ² t | I²t | | Value for one cycle of surge current | 4100 | A ² S |
| Tj | Operating Junction Temperature | | | −40∼+150 | °C |
| Tstg | Storage Temperature | | | −40∼+125 | °C |
| Viso | Isolation Breakdown Voltage (R.M.S.) | | A.C. 1 minute | 2500 | V |
| | Mounting | Mounting (M5) | Recommended Value 1.5~2.5 (15~25) | 2.7 (28) | N ·m |
| | Torque | Terminal (M5) | Recommended Value 1.5~2.5 (15~25) | 2.7 (28) | (kgf·cm) |
| | Mass | | Typical Value | 160 | g |

■Electrical Characteristics

| | Item | Conditions | Ratings | | | Unit |
|-----------|---------------------------------|--------------------------------------|---------|------|------|------|
| Symbol | | | | | | |
| | | | | Тур, | Max. | |
| IRRM | Repetitive Peak Reverse Current | Tj=150℃ at VRRM | | | 10 | mA |
| VFM | Forward Voltage Drop | Tj=25°C, IFM=100A, Inst. measurement | | | 1.2 | V |
| Rth (j-c) | Thermal Impedance | Junction to case | | | 0.2 | °C/W |

DF100BA40/80







