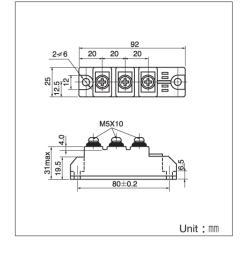
DIODE MODULE DWF(R)40A30/40



 $\mathsf{DWF}(\mathsf{R})40\mathsf{A}$ is a non-isolated diode module designed for 3 phase rectification.

- IF (AV) = 40A, VRRM = 400V
- Easy Construction with Joint-Cathode (F) Type and Joint-Anode (R) type.
- \bullet Non-isolated. (Mounting Base as terminals.)
- High Surge Capability
 - (Applications) Welding Power Supply 3 Phase Rectifier



Maximum Ratings

| Symbol | Item | Ratings | | Unit |
|---------|-------------------------------------|-------------|-------------|------|
| | | DWF(R)40A30 | DWF(R)40A40 | Unit |
| VRRM | Repetitive Peak Reverse Voltage | 300 | 400 | V |
| VRSM | Non-Repetitive Peak Reverse Voltage | 360 | 480 | V |
| VR (DC) | D.C. Reverse Voltage | 240 | 320 | V |

| Symbol | Item | | Conditions | Ratings | Unit |
|---------|--------------------------------|---------------|---|----------|-------------------|
| F (AV) | Average Forward Current | | Single phase, half wave, 180°conduction, Tc:122°C | 40 | Α |
| F (RMS) | R.M.S. Forward Current | | Single phase, half wave, 180°conduction, Tc:122°C | 62 | Α |
| IFSM | Surge Forward Current | | ¹ ∕₂cycle,60Hz, peak value, non-repetitive | 800 | A |
| l²t | l²t | | Value for one cycle of surge current | 2700 | A ² S |
| Tj | Operating Junction Temperature | | | -30~+150 | °C |
| Tstg | Storage Tem | perature | | -30~+125 | °C |
| | Mounting Torque | Mounting (M5) | Recommended Value 1.5~2.5 (15~25) | 2.7 (28) | N •m (kgf •cm) |
| | | Terminal (M5) | Recommended Value 1.5~2.5 (15~25) | 2.7 (28) | |
| | Mass | | | 170 | g |

Electrical Characteristics

| Symbol | Item | Conditions | Ratings | Unit |
|-----------|---------------------------------------|--|---------|------|
| IRRM | Repetitive Peak Reverse Current, max. | at V _{DRM} , single phase, half wave, Tj=150℃ | 8 | mA |
| Vfm | Forward Voltage Drop, max. | Forward current 120A, Tj=25°C, Inst. measurement | 1.15 | V |
| Rth (j-c) | Thermal Impedance, max. | Junction to case | 0.60 | °C/W |



