DIODE MODULE

DWF(R)50A30/40







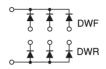
DWF (R)50A is a non-isolated diode module designed for 3 phase rectification.

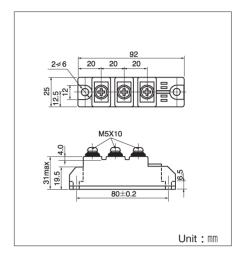
- IF(AV) =50A, VRRM =400V
- Easy Construction with Joint-Cathode (F) Type and Joint-Anode (R) type.
- Non-isolated. (Mounting Base as terminals.)
- High Surge Capability

(Applications)

Welding Power Supply

3 Phase Rectifier





Maximum Ratings

Symbol	ltom	Ratings		Unit
	Item	DWF(R)50A30	DWF(R)50A40	Uill
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
IF (AV)	Average Forward Current		Single phase, half wave, 180° conduction, Tc: 122° C	50	Α
IF (RMS)	R.M.S. Forward Current		Single phase, half wave, 180°conduction, Tc: 122°C	78	Α
lгsм	Surge Forward Current		½cycle, 60Hz, peak value, non-repetitive	1000	Α
l²t	I²t		Value for one cycle of surge current	4150	A ² S
Tj	Operating Junction Temperature			− 30~+150	°C
Tstg	Storage Temperature			− 30~+125	°C
	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			170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit					
IRRM	Repetitive Peak Reverse Current, max.	at V _{DRM} , single phase, half wave, Tj=150°C	10	mA					
VFM	Forward Voltage Drop, max.	max. Forward current 150A, Tj=25°C, Inst. measurement		V					
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.50	°C/W					

DWF(R)50A30/40







