DIODE(THREE PHASES BRIDGE TYPE)

DF20DB40/80





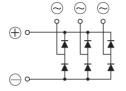


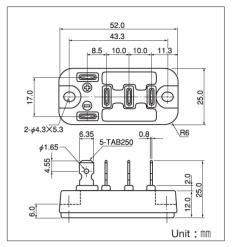
Power Diode Module **DF20DB** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 20Amp (Tc=97 $^{\circ}$ C) Repetitive peak reverse voltage is up to 800V.

- TjMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab

(Applications)
AC. DC Moter Drive/AVR/Switching

—for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	Item	Ratings		Limit
		DF20DB40	DF20DB80	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	500	900	V

Symbol	Item	Conditions Ratings		Unit
ID	Output current (D.C.)	Three phase. full wave. Tc=97°C	20	Α
IFSM	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	320/350	Α
Tj	Junction Temperature		− 40∼ + 150	°C
Tstg	Storage Temperature		− 40∼ + 125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)	Main Terminal to case 1minute	2000	V
	Mounting Torque (Terminal M4)	Recommended Value 1.0~1.4 (10~14)	1.5 (15)	N·m (kgf·cm)
	Mass	Typical Value	32	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	1.5	mA
VFM	Forward Voltage Drop, max.	IFM=20A, Tj=25°C Inst. measurement	1.1	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	1.2	°C/W

DF20DB40/80







