## **DIODE**(THREE PHASES BRIDGE TYPE)

## **DF20DB40/80**





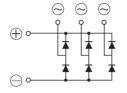


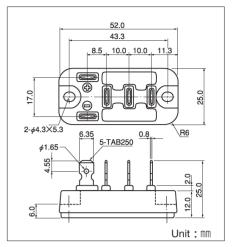
Power Diode Module **DF20DB** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 20Amp (Tc=97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

- TiMax=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		Unit
		DF20DB40	DF20DB80	Offit
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		<b>−</b> 40∼ <b>+</b> 150	°C
Tstg	Storage Temperature		<b>−</b> 40∼ <b>+</b> 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

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