DIODE MODULE (F.R.D.)

FDF60BA50/60







UL;E76102 (M)

Power Diode Module **FDF60BA** is designed for single phase full wave rectification, which has four fast recovery diodes connected in a single phase bridge configuration. **FDF60BA** is suitable for high frequency application requiring low loss and high speed control.

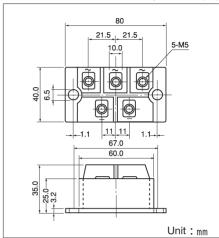
- High Speed trr≤100ns
- Output Current, DC60A
- Isolated Mounting base.

(Applications)

Switching Power Supply, Inverter Welding Power Supply

Power Supply for Telecommunication





Maximum Ratings

(Tj=25°C)

Symbol	ltam	Ratings		Linit
	Item	FDF60BA50	FDF60BA60	Unit
VRRM	Repetitive Peak Reverse Voltage	500	600	V
VR (DC)	D.C. Reverse Voltage	400	480	V

Symbol	I1	Item Conditions		Ratings	Unit
ΙD	Output current		D.C. Tc : 80℃	60	Α
Iгsм	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	600	А
l²t	l²t		Value for one cycle of surge current	1490	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 (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N ·m
	Torque	Terminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	200	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings		Unit				
			Тур.	Max.	Offit				
IRRM	Repetitive Peak Reverse Current	VR=VRRM, Tj=125℃		60	mA				
VFM	Forward Voltage Drop	IFM=60A, Inst. measurement	1.40	1.60	V				
trr	Reverse Recovery Time	IF=60A, $-di/dt=100A/\mu s$	85	100	ns				
Rth (j-c)	Thermal Impedance	Junction to case (a module)		0.36	°C/W				

FDF60BA50/60







