DIODE MODULE (F.R.D.)

FDF25CA100/120







FDF25CA is a high speed dual diode module designed for high power switching application. **FDF25CA** is suitable for high frequency application requiring low loss and high speed control.

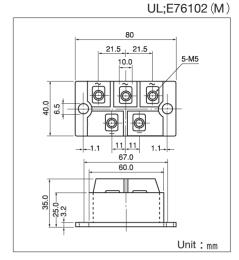
- High Speed trr≤200ns
- ID=25A
- Isolated mounting construction.
- High Surge Capability

(Applications)

Switching Power Supply, Inverter Welding Power Supply

Power Supply for Telecommunication





Maximum Ratings

(Tj=25°C)

Symbol	Itam	Ratings		
	Item	FDF25CA100	FDF25CA120	Unit
VRRM	Repetitive Peak Reverse Voltage	1000	1200	V
VR (DC)	D.C. Reverse Voltage	800	960	V

Symbol	Item Conditions		Ratings	Unit	
ΙD	Output Current (D.C.)		Three phase full wave. Tc: 114℃	25	Α
IFSM	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	400	Α
l²t	I²t		Value for one cycle of surge current	660	A ² S
Tj	Operating Junction Temperature			− 40∼ + 150	S.
Tstg	Storage Temperature			− 40∼ + 125	ڻ ا
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting Torque	Muonting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N ·m
		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
	item	Conditions		Тур.	Max.	Offic
IRRM	Repetitive Peak Reverse Current	VR=VRRM, Tj=150°C			2.0	mA
VFM	Forward Voltage Drop	IFM =25A, Inst. measurement			1.8	V
trr	Reverse Recovery Time, max.	IF=25A, $-di/dt=100A/\mu s$			200	ns
Rth (j-c)	Thermal Impedance	Junction to case			0.4	°C/W

FDF25CA100/120







