## **DIODE MODULE** (F.R.D.)

## FRS400CA120







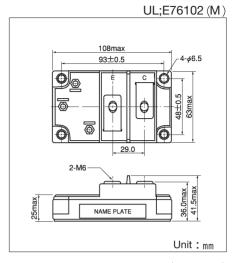
FRS400CA120 is a high speed isolated diode module designed for high power switching application. FRS400CA120 is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≤400ns
- IF (AV) 400A
- Isolated Mounting base.
- High Surge Capability

(Applications)

Inverter Welding Power Supply Power Supply for Telecommunication Various Switching Power Supply.





Maximum Ratings

(Tj=25°C)

Symbol	Item	Ratings	
		FRS400CA120	Unit
VRRM	Repetitive Peak Reverse Voltage	1200	V
VR (DC)	D.C. Reverse Voltage	960	V

Symbol	l1	tem	Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc : 78℃	400	Α
IFSM	Surge Forwar	d Current	½ cycle, 60Hz, peak value, non-repetitive	4000	Α
l²t	I²t		Value for one cycle of surge current	66640	A <sup>2</sup> S
Tj	Operating June	ction Temperature		<b>−40∼+150</b>	c
Tstg	Storage Temperature			<b>−40∼+125</b>	°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 (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	(kgf·cm)
	Mass		Typical Value	460	g

## **■**Electrical Characteristics

Symbol	Item	Conditions	Ratings			Linit				
			Min,	Тур.	Max.	Unit				
Irrm	Repetitive Peak Reverse Current	VR=VRRM, Tj=150°C			20	mA				
VFM	Forward Voltage Drop	IF=400A, Inst. measurement			1.8	V				
trr	Reverse Recovery Time	IF=400A, $-di/dt=400A/\mu s$			400	ns				
Rth (j-c)	Thermal Impedance	Junction to case			0.1	°C/W				

## FRS400CA120







