DIODE MODULE (F.R.D.) RS200CA100/120 F

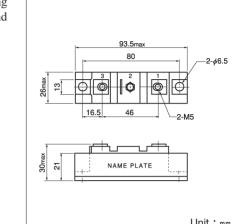


UL;E76102 (M)

FRS200CA is a high speed isolated diode module designed for high power switching application. FRS200CA is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≦350ns
- IF(AV) 200A
- Isolated Mounting base.
- High Surge Capability (Applications)

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



Unit:mm

Maximum Ratings

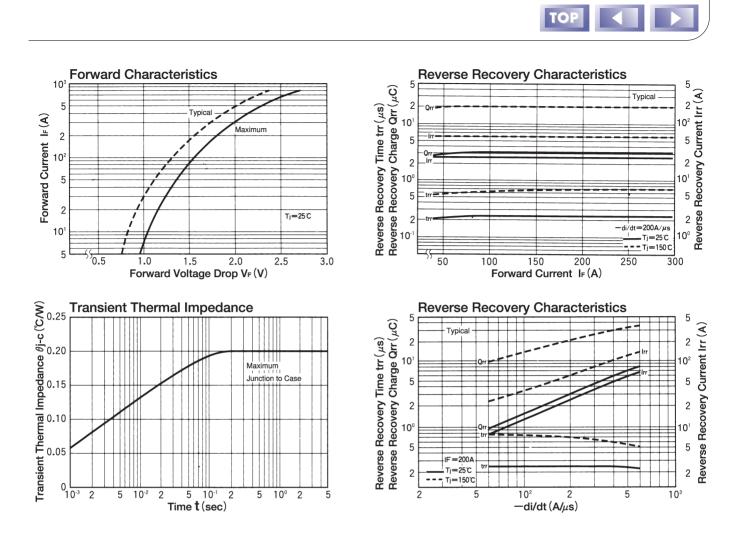
Maximum Ratings						
Symbol	Item	Ratings				
		FRS200CA100	FRS200CA120	Unit		
VRRM	Repetitive Peak Reverse Voltage	1000	1200	V		
VR (DC)	D.C. Reverse Voltage	800	960	V		

-0

Symbol	I	tem	Conditions	Ratings	Unit
lf	Forward Current		D.C. Tc : 85 °C	200	Α
IFSM	Surge Forward Current		¹ / ₂ cycle, 60Hz, peak value, non-repetitive	3300	Α
l²t	l²t		Value for one cycle of surge current	45000	A ² S
Tj	Operating Junction Temperature			-40~+150	Ĵ
Tstg	Storage Temperature			-40~+125	ů
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5 ~3.9 (25~40)	4.7 (48)	N∙m
		Terminal (M5)	Recommended Value 1.5 ~2.5 (25~40)	2.7 (28)	$(kgf \cdot cm)$
	Mass		Typical Value	170	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
		Conditions		Тур,	Max.	Unit
IRRM	Repetitive Peak Reverse Current	Тј=150℃ at Vввм=500V			10	mA
Vfm	Forward Voltage Drop	Tj=25 ℃ IFM=200A, Inst. measurement			1.8	V
trr	Reverse Recovery Time	I⊧=200A, -di/dt=200A/µs			350	ns
Rth (j-c)	Thermal Impedance	Junction to case			0.2	°C/W



FRS200CA100/120