DIODE MODULE (F.R.D.)

FRS200BA50/60







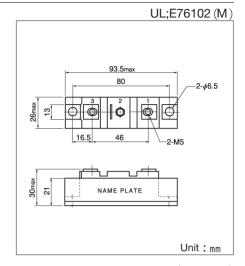
FRS200BA is a high speed isolated diode module designed for high power switching application. FRS200BA is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≤100ns
- IF (AV) 200A
- 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	Unit
VRRM	Repetitive Peak Reverse Voltage	600	V
VR (DC)	D.C. Reverse Voltage	480	V

Symbol	Item		Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc ∶94°C	200	Α
IFSM	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	3300	Α
l²t	2t		Value for One cycle of surge curent	45000	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	170	g

■Electrical Characteristics

(Tj=25°C)

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max	at VRRM, single phase, half wave.Tj=150℃	200	mA
VFM	Forward Voltage Drop,max	Foward current 200A, Inst. measurement	1.3	V
Rth (j-c)	Thermal Impedance,max	Junction to case	0.2	°C/W
trr	Reverse Recovery Time, max	IF=200A, $di/dt=-200A/\mu s$	100	ns