DIODE MODULE (F.R.D.)

FRS400BA50/60

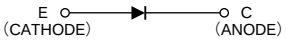
UL;E76102(M)

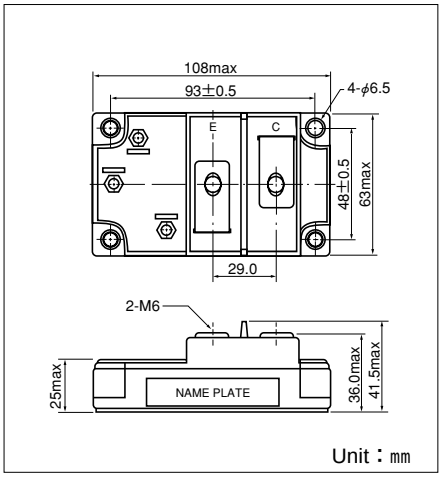
FRS400BA is a high speed (fast recovery) isolated diode module designed for high power switching application. **FRS400BA** is suitable for high frequency application requiring low loss and high speed control.

- High Speed t_{rr}≦200ns
- $I_{F(AV)}$ 400A
- Isolated Mounting base.
- High Surge Capability

(Applications)

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





■Maximum Ratings

(Tj=25℃ unless otherwise specified)

Symbol	Item	Ratings		Unit
		FRS400BA50	FRS400BA60	
V_{RRM}	Repetitive Peak Reverse Voltage	500	600	V
$V_{R(DC)}$	D.C. Reverse Voltage	400	480	V

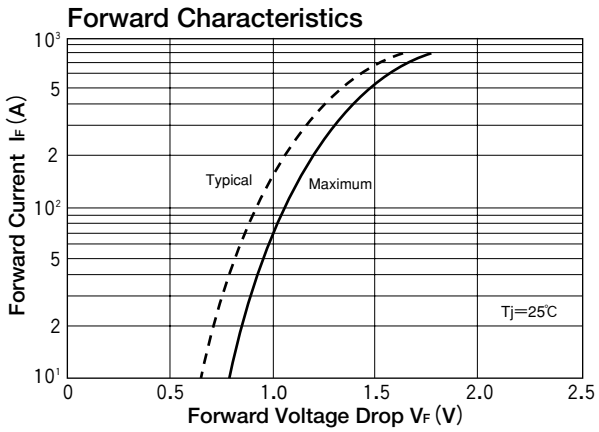
Symbol	Item		Conditions	Ratings	Unit
$I_{F(AV)}$	Forward Current		D.C. Tc : 94℃	400	A
I_{FMS}	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	4000	A
I^2t	I^2t		Value for one cycle of surge current	66640	A^2S
Tj	Operating Junction Temperature			−40 to +150	℃
Tstg	Storage Temperature			−40 to +125	℃
V_{ISO}	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 (kgf·cm)
		Terminal (M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	
	Mass		Typical Value	460	g

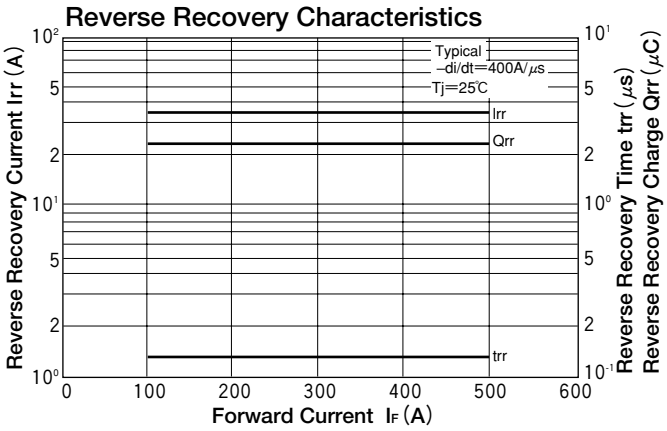
■Electrical Characteristics

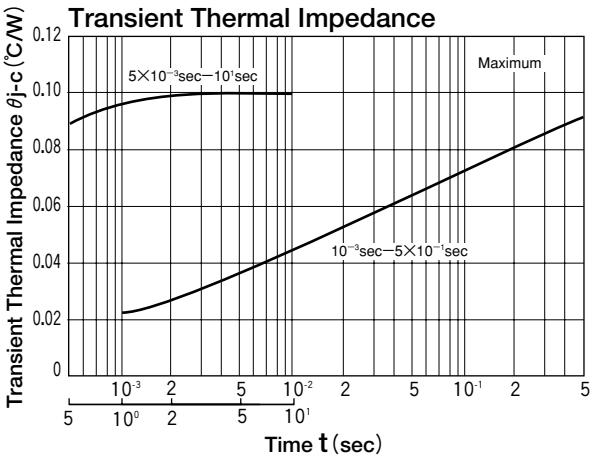
Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{RRM}	Repetitive Peak Reverse Current	V_R=V_{RRM}, T_j=125℃			400	mA
V_{FM}	Forward Voltage Drop	I_F=400A, Inst. measurement		1.3	1.4	V
trr	Reverse Recovery Time	I_F=400A, −di/dt=400A/μs		130	200	ns
Rth(j-c)	Thermal Impedance	Junction to case			0.1	℃/W

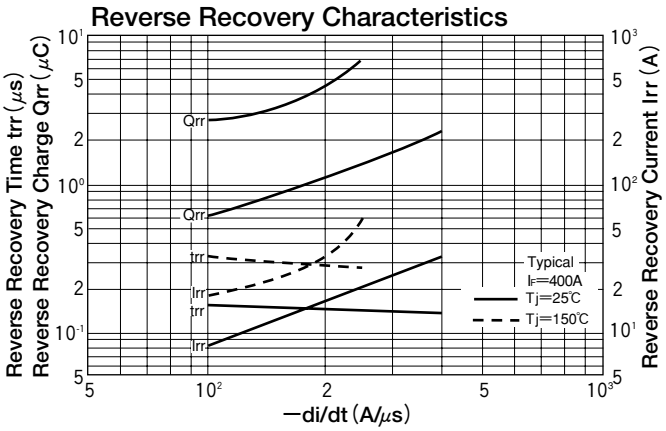
SanRex®

50 Seaview Blvd. Port Washington, NY 11050-4618 PH.(516)625-1313 FAX(516)625-8845 E-mail: semi@sanrex.com









50 Seaview Blvd. Port Washington, NY 11050-4618 PH.(516)625-1313 FAX(516)625-8845 E-mail: semi@sanrex.com