DIODE MODULE (F.R.D.)

FRD/FDS100BA60

UL;E76102(M)

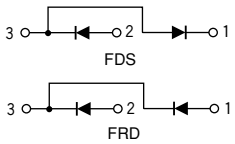
FRD(FDS)100BA is a high speed (fast recovery) dual diode module designed for high power switching application. **FRD(FDS)100BA** is suitable for high frequency application requiring low loss and high speed control.

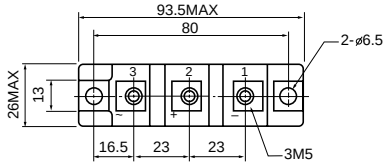
- High Speed t_{rr}≦100ns
- $I_{F(AV)}$ 100A (each device)
- Isolated mounting construction.
- High Surge Capability

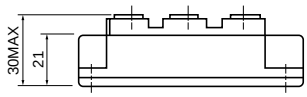
(Applications)

Switching Power Supply, Inverter Welding Power Supply

Power Supply for Telecommunication







Unit : mm

■Maximum Ratings

(Tj=25℃ unless otherwise specified)

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

Symbol	Item		Conditions	Ratings	Unit
I_F	Forward Current		D.C. Tc : 94℃	100	A
I_{FSM}	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	2000	A
I^2t	I^2t		Value for One cycle of surge curent	16700	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)	Nm (kgf·cm)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	
	Mass			170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings		Unit
			Typ.	Max.	
I_{RRM}	Repetitive Peak Reverse Current, max.	$V_R=V_{RRM}$, Tj=125℃		100	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 100A, Inst. measurement	1.15	1.3	V
Rth(j-c)	Thermal Impedance, max.	Junction to case		0.4	℃/W
trr	Reverse Recovery Time, max.	I_F=100A, di/dt=−100A/μs	85	100	ns

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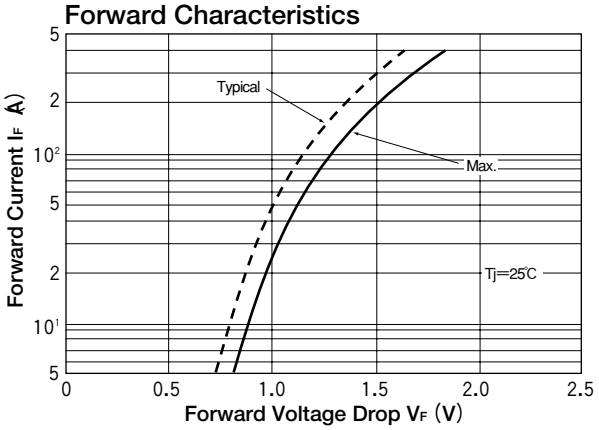
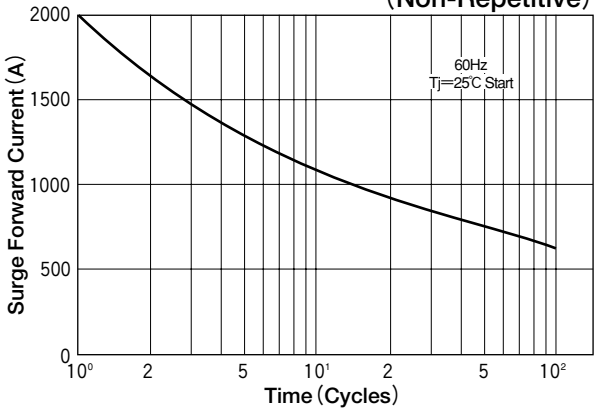
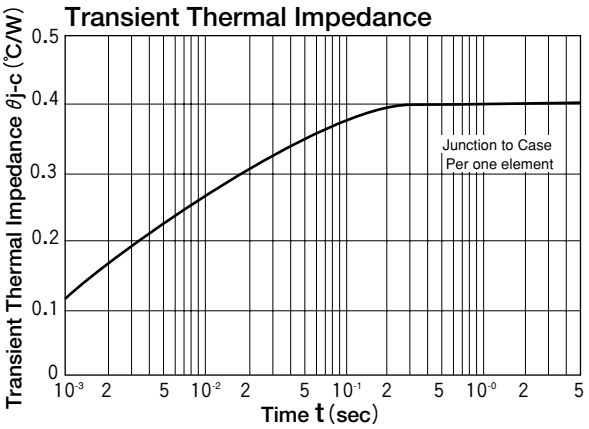
Forward Characteristics



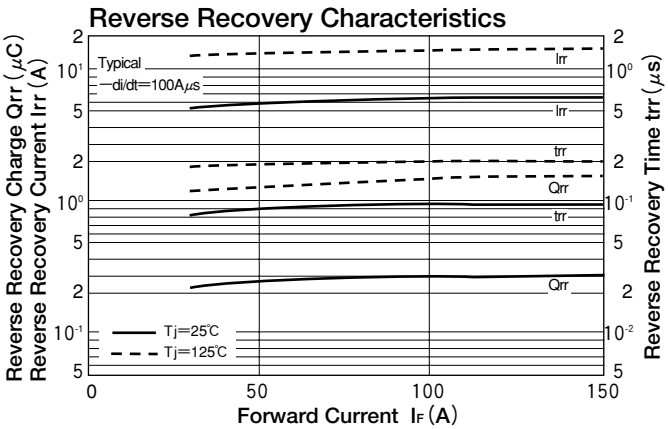
Cycle Surge Forward Current Rating (Non-Repetitive)



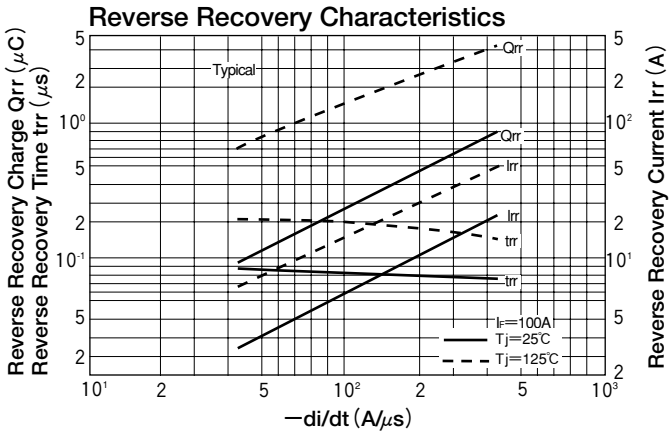
Transient Thermal Impedance



Reverse Recovery Characteristics



Reverse Recovery Characteristics



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