DIODE MODULE (F.R.D.)

FRD/FDS100AA40/60

UL;E76102(M)

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

- High Speed trr ≤ 200ns
- $\bullet I_{F(AV)} = 100A$ (each device)
- Isolated mounting construction.
- High Surge Capability

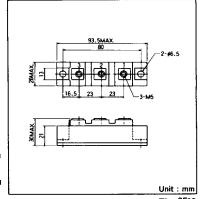
(Applications)

Switching Power Supply, Inverter Welding Power

Supply

Power Supply for Telecommunication





■Maximum Ratings

Tj=25°C

Symbol	Item	FRD(FDS)100AA40	FRD(FDS)100AA60	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	400	600	٧
V _{RSM}	Non-Repetitive Peak Reverse Voltage	480	720	٧

Symbol	ltem			Conditions	Ratings	Unit
lf(AV)	Arerage Forward Current			D.C. Tc: 78°C	100	Α
İFSM	Surge Forward Current			1/2 cycle, 50/60Hz, peak value, non-repetitive	1800/2000	Α
l²t	l ² t				16600	A ² S
Tj	Operating Junction Temperature				-40~+150	°C
Tstg	Storage Temperature				-40~+125	°C
V _{ISO}	Isolation Breakdown Voltage (R.M.S.)			A.C. 1minute	2500	٧
	Mounting Torque		(M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N∙m (kgf∙cm)
		Terminal	(M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	
	Mass				170	g

■Electrical Characteristics

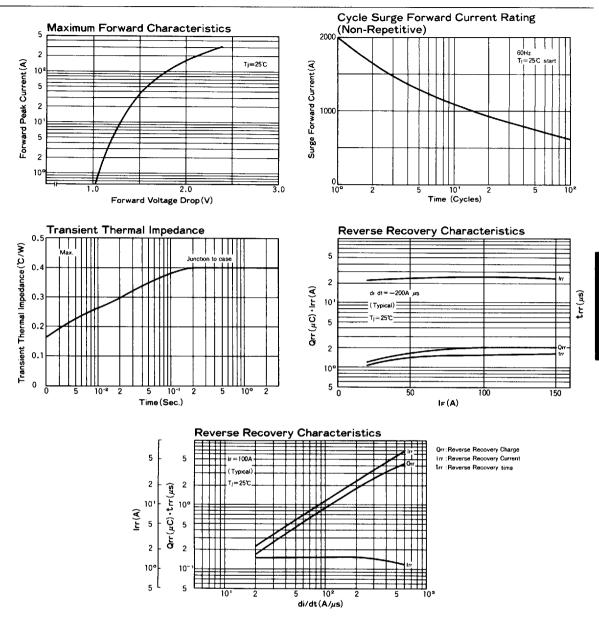
 $(Tj = 25^{\circ}C)$

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	at V _{DRM} , single phase, half wave, Tj = 150°C	150	mA
V _{FM}	Forward Voltage Drop, max.	Foward current 100A, Inst. measurement	1.8	٧
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.4	°C/W
trr	Reverse Recovery Time, max	$I_F = 100A$, $di/dt = -100A/\mu s$	200	ns

💻 7991243 0002049 5**8**1 📟

A-87

SanRex



7991243 0002050 2T3 I