## **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

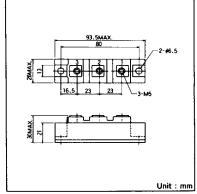
(Applications)

Switching Power Supply, Inverter Welding Power

Supply

Power Supply for Telecommunication





## **■**Maximum Ratings

Tj=25°C

Symbol	ltem	FRD(FDS)100AA40	FRD(FDS)100AA60	Unit
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	400	600	٧
V <sub>RSM</sub>	Non-Repetitive Peak Reverse Voltage	480	720	٧

Symbol	Item		Conditions	Ratings	Unit
IF(AV)	Arerage Forward Current		D.C. Tc: 78°C	100	Α
İFSM	Surge Forward Current		½ cycle, 50/60Hz, peak value, non-repetitive	1800/2000	Α
l²t	I²t			16600	A <sup>2</sup> S
Tj	Operating Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+125	°C
V <sub>ISO</sub>	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**

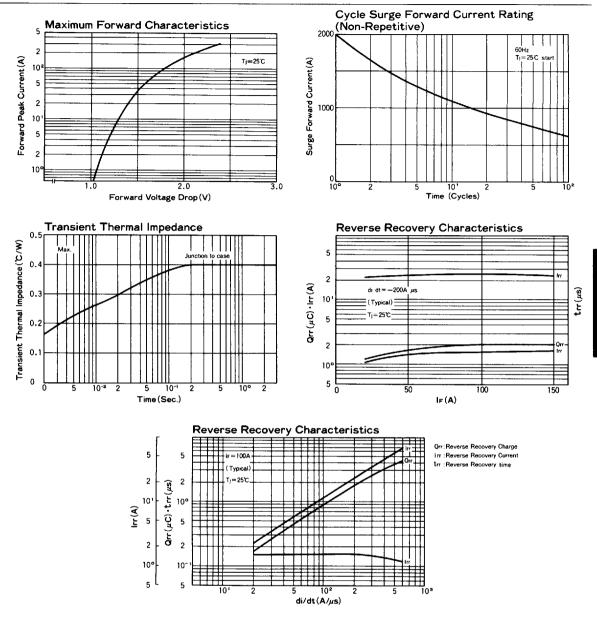
 $(Tj = 25^{\circ}C)$ 

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	at V <sub>DRM</sub> , single phase, half wave, Tj = 150°C	150	mA
V <sub>FM</sub>	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

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