

FRED Modules

V_{RRM} 1200V

I_{FAV} 200 A

Applications

- y Inversion Welder
- y Uninterruptible Power Supply (UPS)
- y Plating Power Supply
- y Ultrasonic Cleaner and Welder
- y Power Factor Correction (PFC) Circuit
- y Converter & Chopper

Features

- y Soft Reverse Recovery Characteristics
- y Ultrafast Reverse Recovery Time
- y Low Reverse Recovery Loss
- y Low Forward Voltage
- y High Surge Current Capability
- y Low Inductance Package

Circuit

Maximum Ratings

Symbol	Conditions	Values	Units
V _R		1200	V
V _{RRM}		1200	V
I _{F(AV)}	T _C =110°C, Per Diode	200	A
I _{F(RMS)}	T _C =110°C, Per Diode	280	A
I _{FSM}	1/2 Cycle , 50Hz, Sine	1800	A
	1/2 Cycle , 60Hz, Sine	1950	A
I ² t	T _J =45°C, t=10ms, 50Hz, Sine	16200	A ² s
	T _J =45°C, t=8.3ms, 60Hz, Sine	19000	A ² s
P _D		568	W
Visol	AC, Ton=1min	3000	V
T _J		-40 to +150	°C
T _{STG}		-40 to +125	°C
Torque	RecommendedHM6H	4.5	N·m
Torque	RecommendedHM6H	4.5	N·m

			Units
R _{th(j-c)}	Junction-to-Case	0.2	/W

