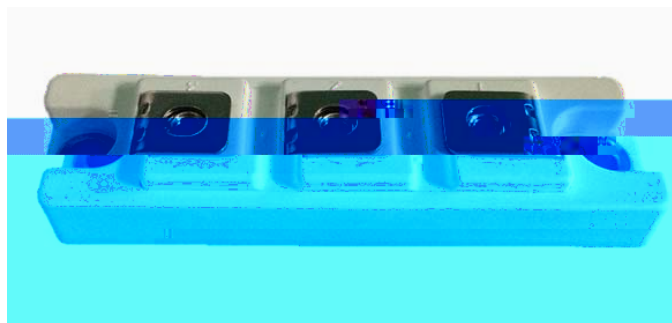
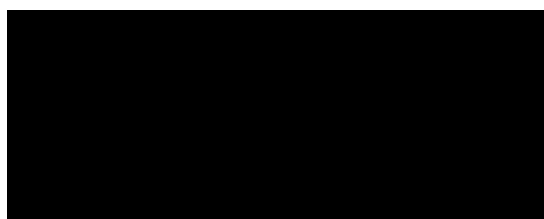




Circuit



FRED Modules

V_{RRM} 1200V

I_{FAV} 200 A

Applications

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

Features

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

Maximum Ratings

Symbol	Conditions	Values	Units
V_R		1200	V
V_{RRM}		1200	V
$I_{F(AV)}$	$T_C=110^{\circ}\text{C}$, Per Diode	200	A
$I_{F(RMS)}$	$T_C=110^{\circ}\text{C}$, Per Diode	280	A
I_{FSM}	1/2 Cycle , 50Hz, Sine	1800	A
	1/2 Cycle , 60Hz, Sine	1950	A
I^2t	$T_J=45^{\circ}\text{C}$, t=10ms, 50Hz, Sine	16200	A^2s
	$T_J=45^{\circ}\text{C}$, t=8.3ms, 60Hz, Sine	19000	A^2s
P_D		568	W
Visol	AC, Ton=1min	3000	V
T_J		-40 to +150	$^{\circ}\text{C}$
T_{STG}		-40 to +125	$^{\circ}\text{C}$
Torque	Recommended M6	4.5	N·m
Torque	Recommended M6	4.5	N·m

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

