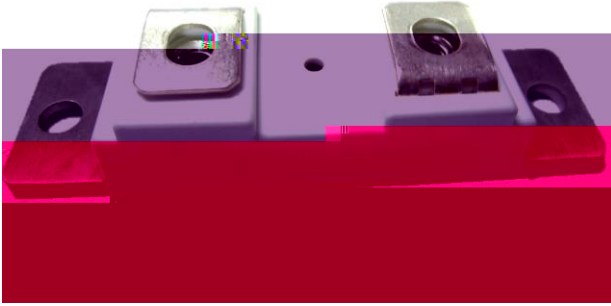


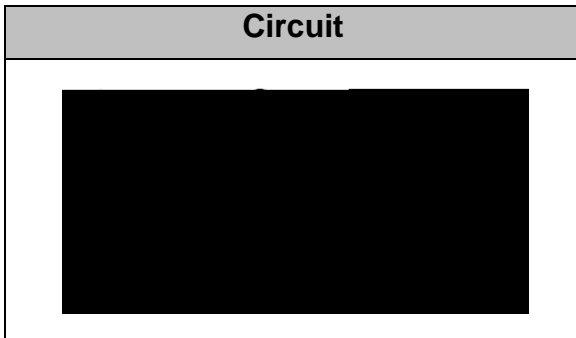
FRED Modules



V_{RRM} 400V
I_{FAV} 400 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		400	V
V _{RRM}		400	V
I _{F(AV)}	T _C =125°C, Per Diode	200	A
	T _C =125°C, Per Module	400	A
I _{F(RMS)}	T _C =125°C, Per Diode	285	A
I _{FSM}	1/2 Cycle, 50Hz, Sine	6000	A
	1/2 Cycle, 60Hz, Sine	6580	A
I ² t	T _J =45°C, t=10ms, 50Hz, Sine	180000	A ² s
P _D		2000	W
T _J		-40 to +150	°C
T _{STG}		-40 to +125	°C
Torque	Recommended M6	3 4.7	N·m
Torque	Recommended M6	3 4.7	N·m
Weight		92	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per Module	0.06	/W

Electrical Characteristics

Performance Curves

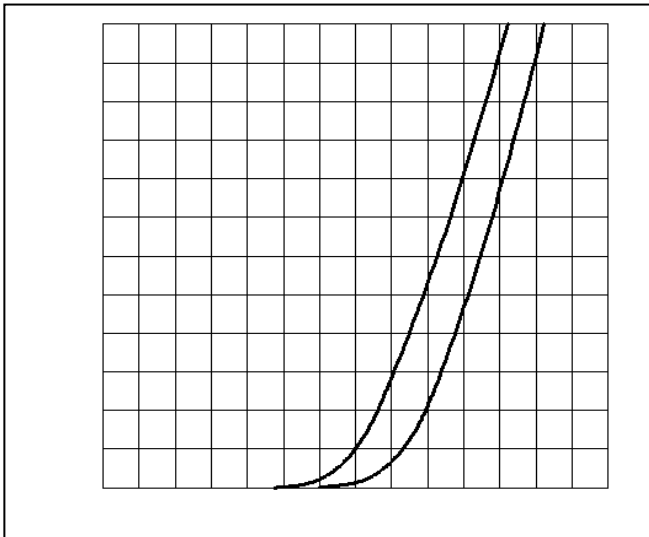


Fig1. Forward Voltage Drop vs Forward Current

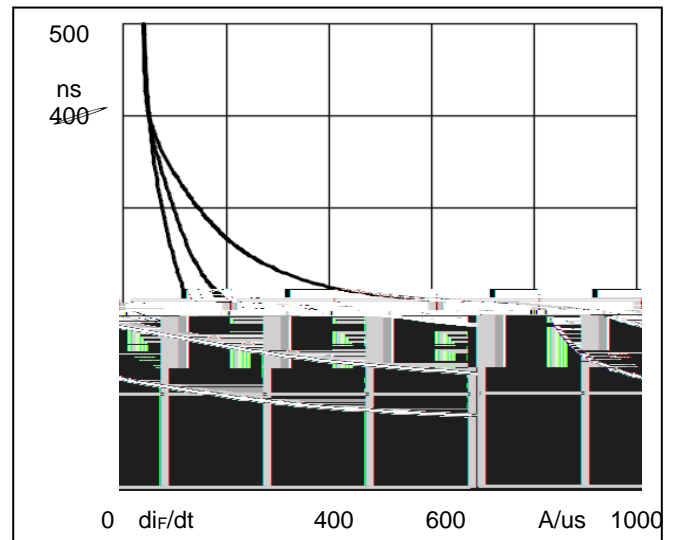


Fig2. Reverse Recovery Time vs di_F/dt

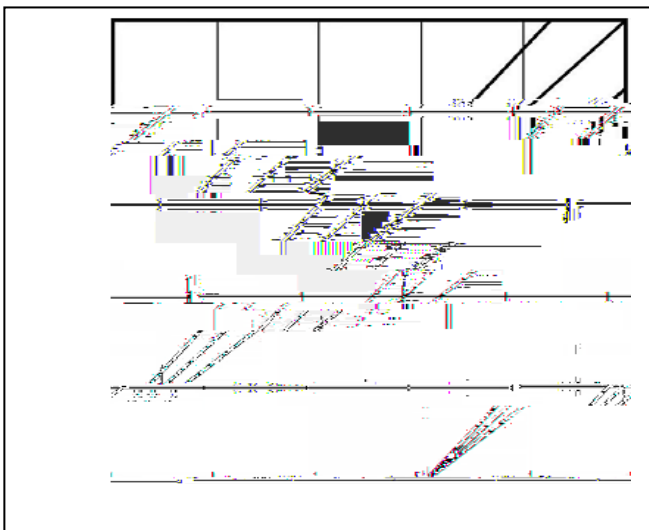


Fig3. Reverse Recovery Current vs di_F/dt

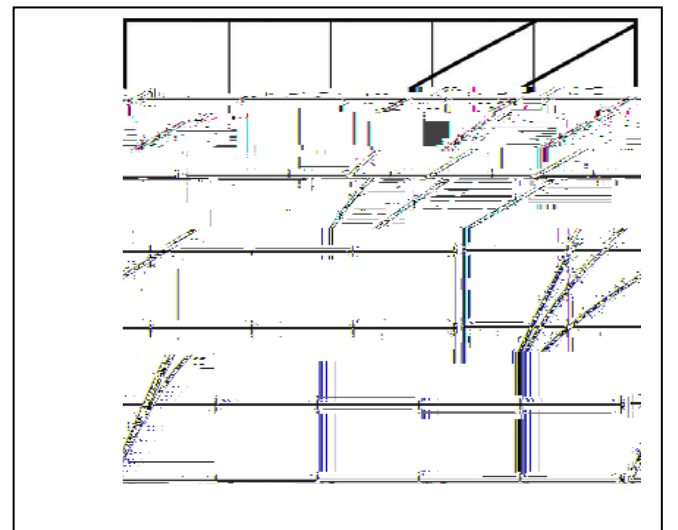


Fig4. Reverse Recovery Charge vs di_F/dt



Package Outline Information