MF200K12F5

RoHS COMPLIANT



FRED Modules

V_{RRM} 1200V
I_{FAV} 200 A

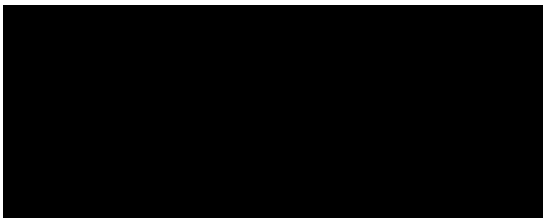
Applications

- 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

Circuit



Maximum Ratings

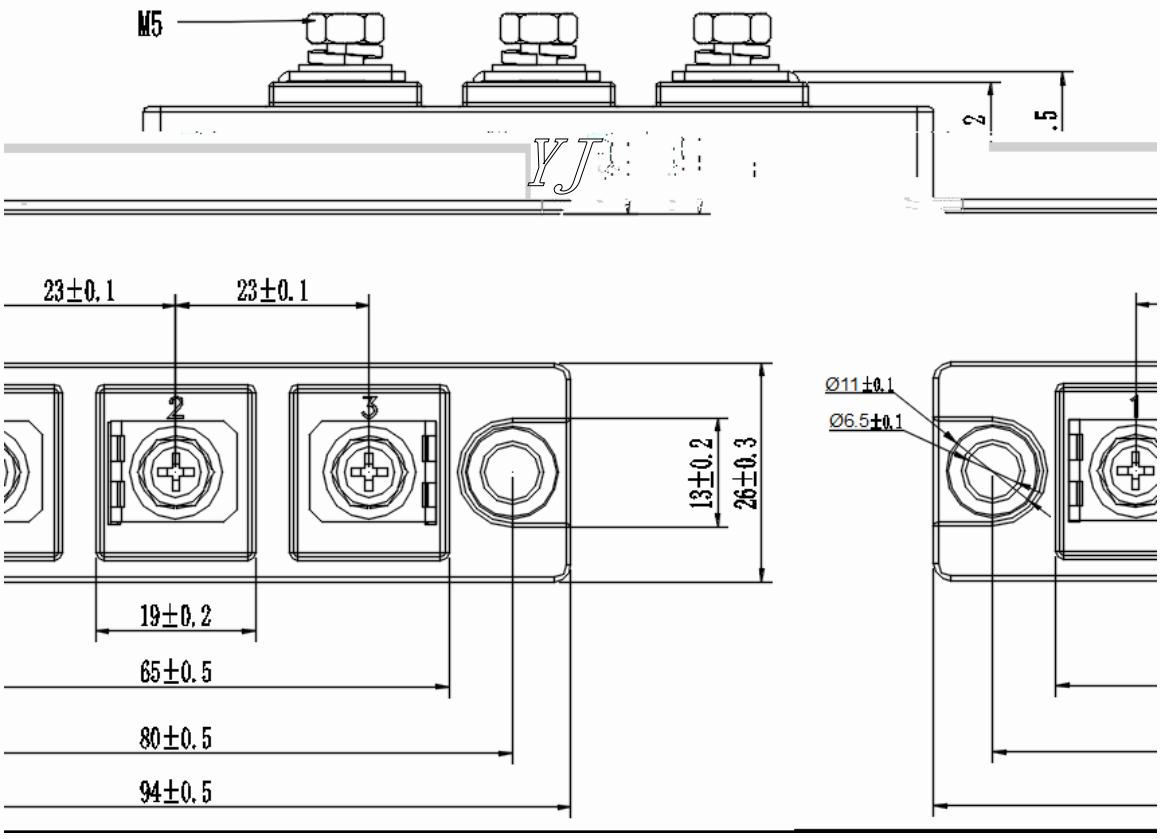
Symbol	Conditions	Values	Units
V_R		1200	V
V_{RRM}		1200	V
$I_{F(AV)}$	T_C=110°C, Per Diode	200	A
$I_{F(RMS)}$	T_C=110°C, Per Diode	280	A
I_{FSM}	1/2 Cycle , 50Hz, Sine	1800	A
	1/2 Cycle , 60Hz, Sine	1950	A
I^2t	T_J=45°C, t=10ms, 50Hz, Sine	16200	A^2s
	T_J=45°C, t=8.3ms, 60Hz, Sine	19000	A^2s
P_D		568	W
Visol	AC, Ton=1min	3000	V
T_J		-40 to +150	°C
T_{STG}		-40 to +125	°C
Torque	Recommended M6	4.5	N·m
Torque	Recommended M6	4.5	N·m
Weight		105	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Junction-to-Case	0.2	℃/W

Package Outline Information

CASE: F5



Dimensions in mm