MB200DU01FJ

RoHS COMPLIANT



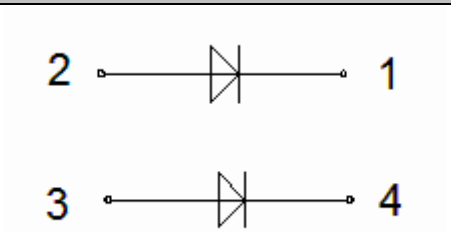
Schottky Rectifier Modules

VRRM 100V
IFAV 2 100 A

Applications

- Plating Power Supply
- High Frequency Power Supply
- High Current Switching Power Supply
- Reverse Battery Protection
- Welding Machine

Circuit



Features

- 175 T_J Operation
- Center Tap Module
- High Frequency Operation
- Low Forward Voltage
- Dual Diode Construction; May be Paralleled for High Current Output
- Lead (Pb)-free
- Designed and qualified for industrial level

Maximum Ratings

Symbol	Conditions	Values	Units
V_R		100	V
$I_{F(AV)}$	T_C=125°C, Per Diode	100	A
	T_C=125°C, Per Module	200	A
I_{FSM}	1/2 Cycle , 60Hz, Sine	1500	A
I^2t	T_J=45°C, t=8.3ms, 60Hz, Sine	11250	A^2s
T_J		-40 to +150	°C
T_{STG}		-40 to +150	°C
Visol	3600V AC 1s	1	mA
Torque	Recommended M4	0.6 1.2	N·m
Torque	Recommended M4	0.6 1	N·m
Weight		27	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	0.3	/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I_{RM}	V_R=100V	--	--	1	mA
	V_R=100V, T_J=125°C	--	--	20	mA
V_F	I_F=100A, , T_J=25°C	--	0.82	0.84	V
	I_F=100A, , T_J=125°C	--		0.68	

Performance Curves

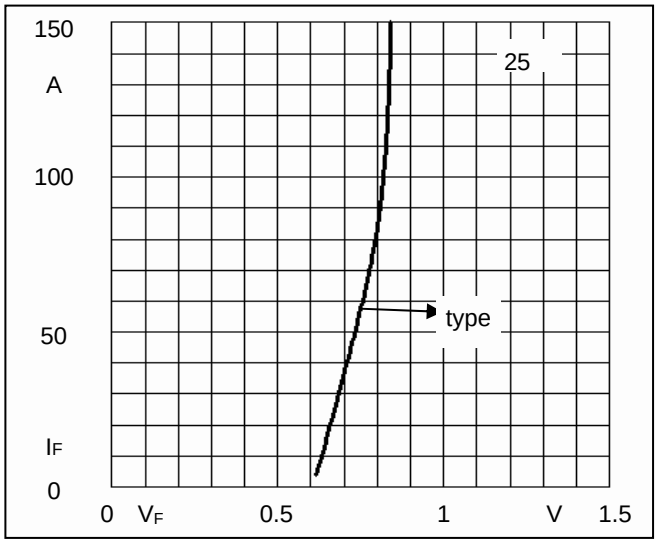


Fig1. Forward Voltage Drop vs Forward Current

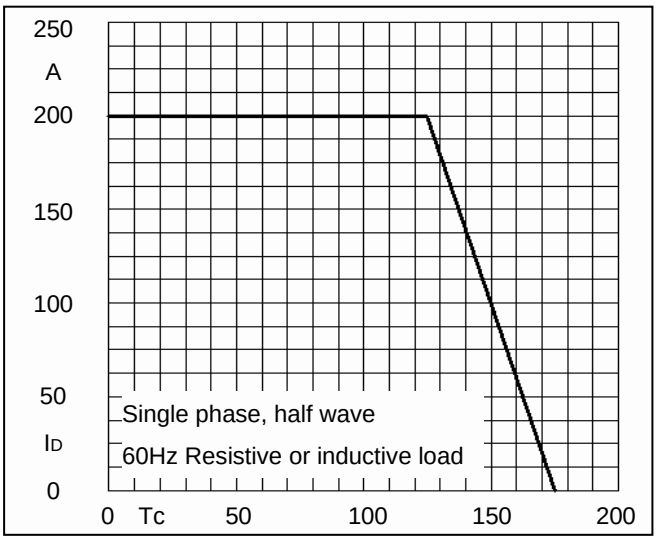


Fig2. Forward Current Derating Curve

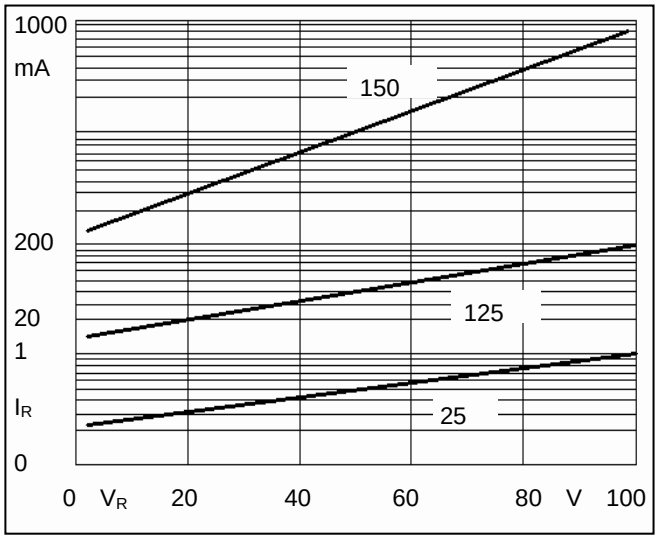
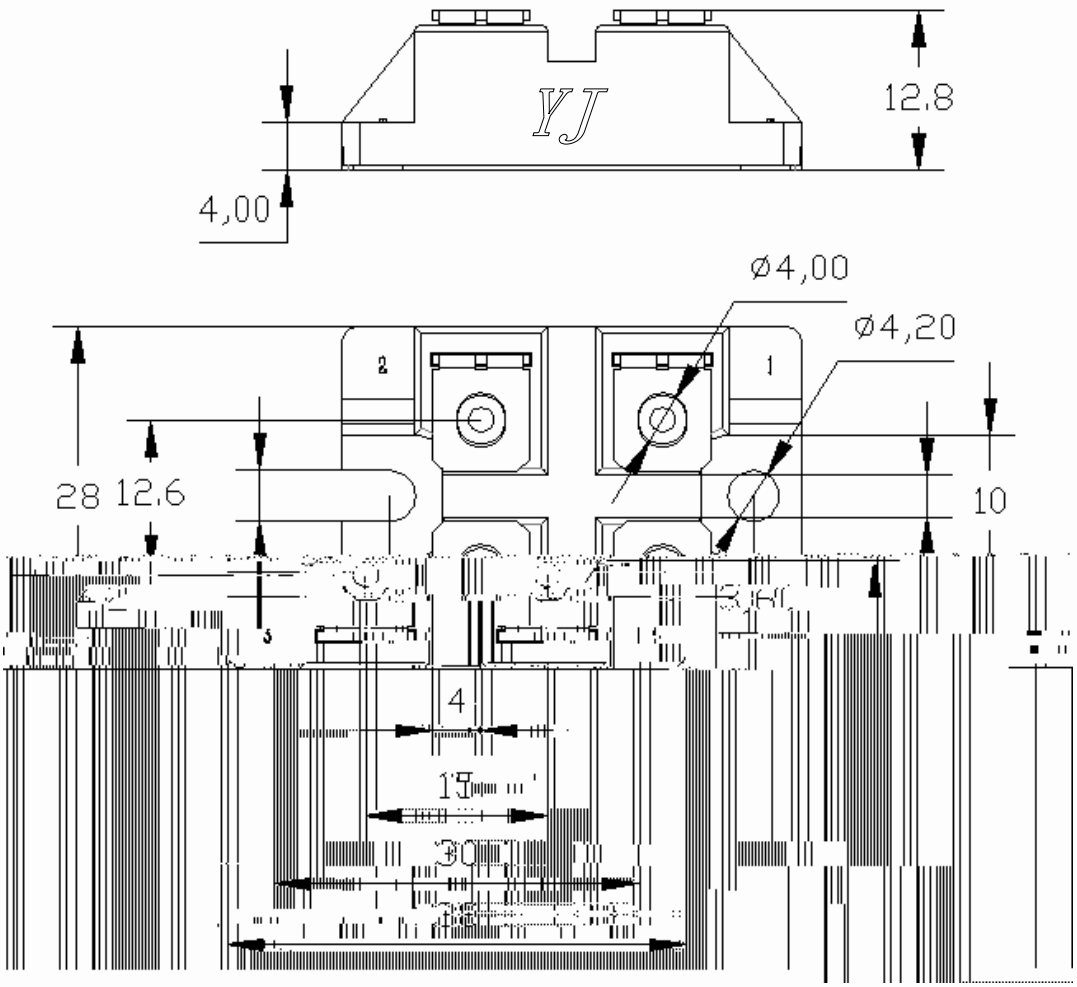


Fig3. Typical Reverse Current

Package Outline Information

CASE: FJ



Dimensions in mm