



Schottky Rectifier Modules

V_{RRM} 100V
I_{FAV} 2×100 A

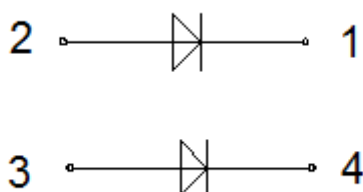
Applications

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

Features

- 175°C 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

Circuit



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 ² t	T _J =45°C, t=8.3ms, 60Hz, Sine	11250	A ² s
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
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Weight		27	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.3	°C/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

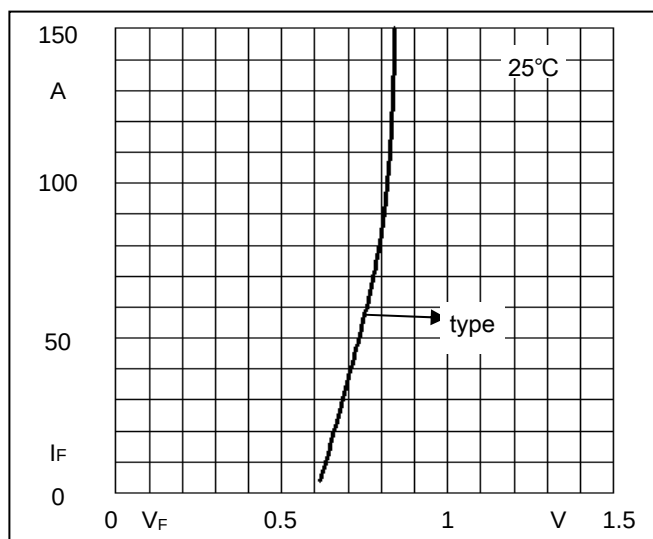


Fig1. Forward Voltage Drop vs Forward Current

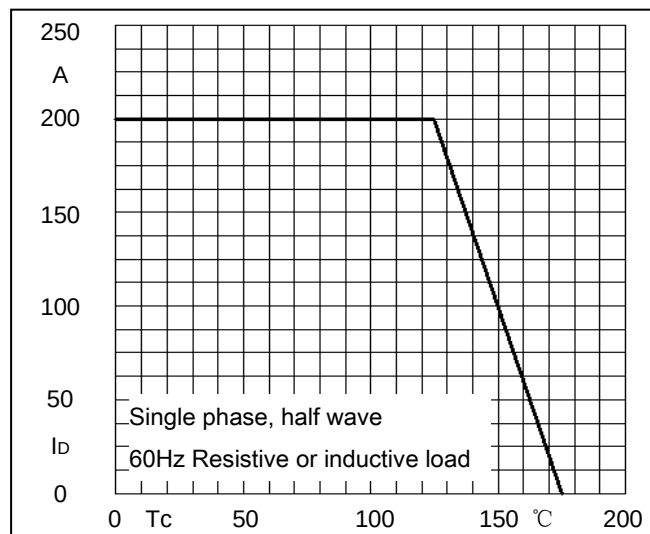


Fig2. Forward Current Derating Curve

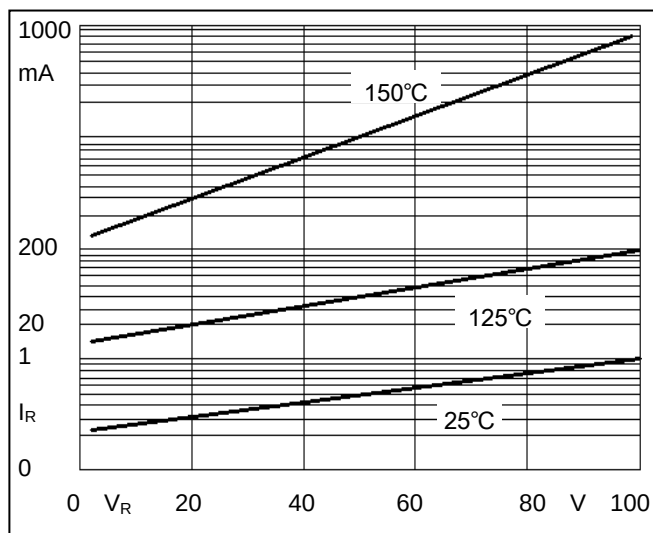
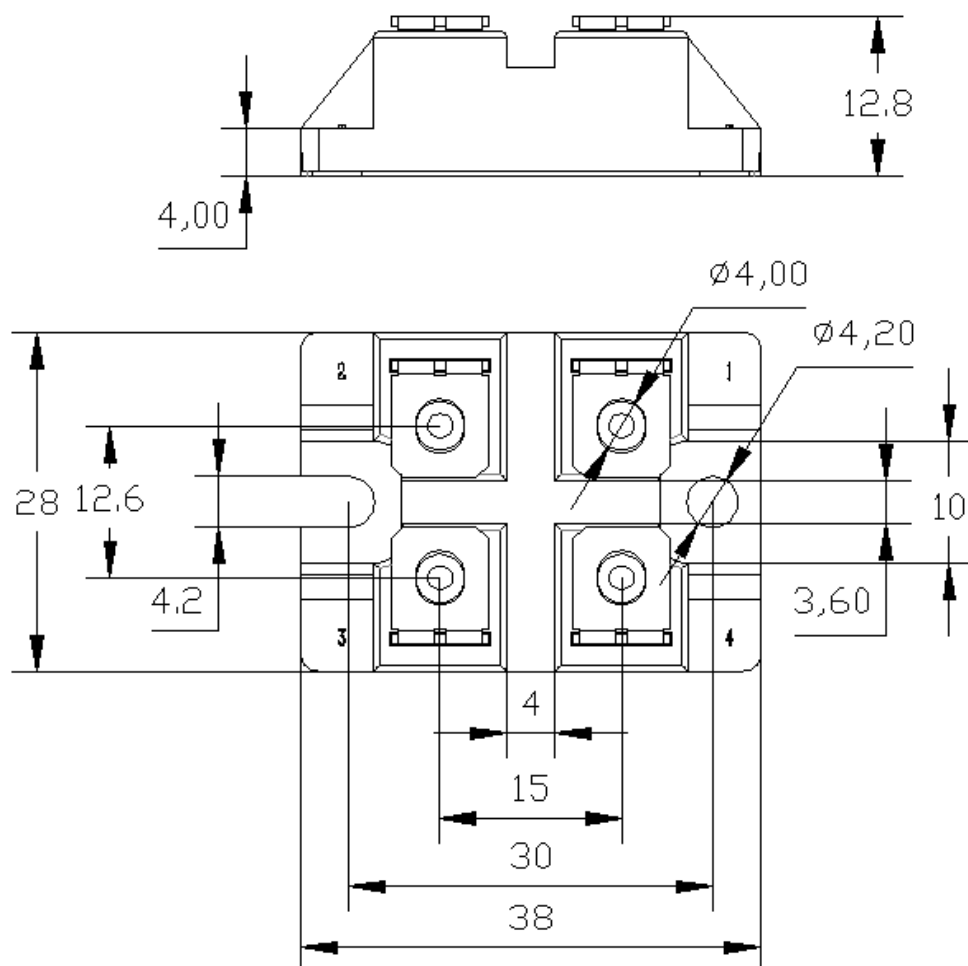


Fig3. Typical Reverse Current

Package Outline Information

CASE: FJ



Dimensions in mm