



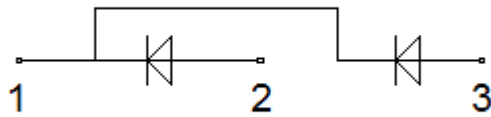
Schottky Rectifier Modules

V_{RRM} 200V
I_{FAV} 100 A × 2

Applications

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

Circuit



Features

- 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

Module Type

TYPE	V _{RRM}	V _{RSM}
MB100K02F1	200V	210V

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, 50Hz, Sine	1300	A
I ² t	T _J =45°C, t=10ms, 50Hz, Sine	8450	A ² s
T _J		-40 to +150	°C
T _{STG}		-40 to +125	°C
Visol	AC, Ton=1min	3000	V
Torque	Recommended (M5)	3	N·m
Torque	Recommended (M5)	3	N·m
Weight		100	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.4	°C/W



Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I_{RM}	$V_R=200V$	--	--	1	mA
	$V_R=100V, T_J=125^{\circ}C$	--	--	10	mA
V_{FO}	$T_J=125^{\circ}C$			0.58	V
r_F	$T_J=125^{\circ}C$			2.66	m Ω
V_F	$I_F=100A, T_J=25^{\circ}C$	--	0.91	1.0	V
	$I_F=100A, T_J=125^{\circ}C$	--	0.79	0.85	

Performance Curves

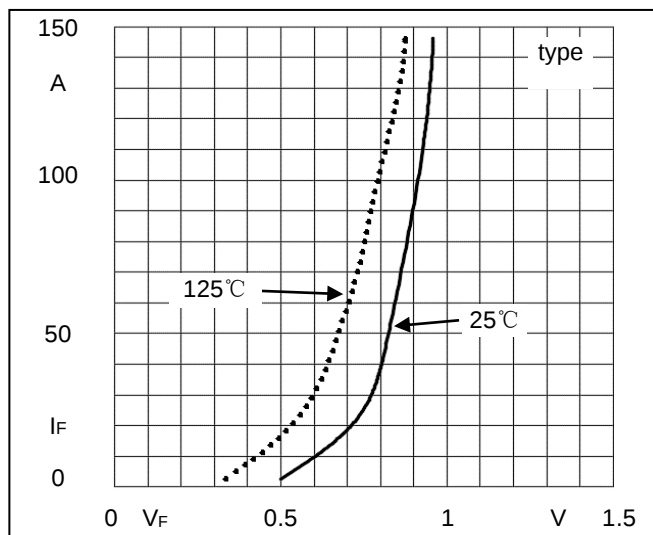


Fig1. Forward Voltage Drop vs Forward Current

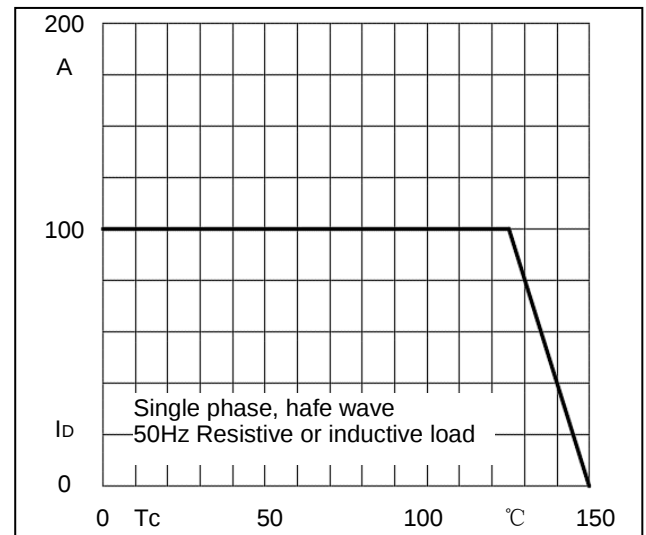


Fig2. Forward Current Derating Curve

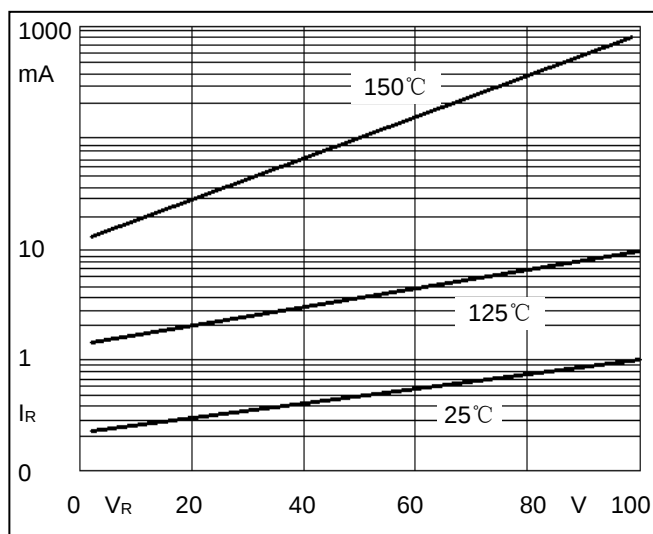
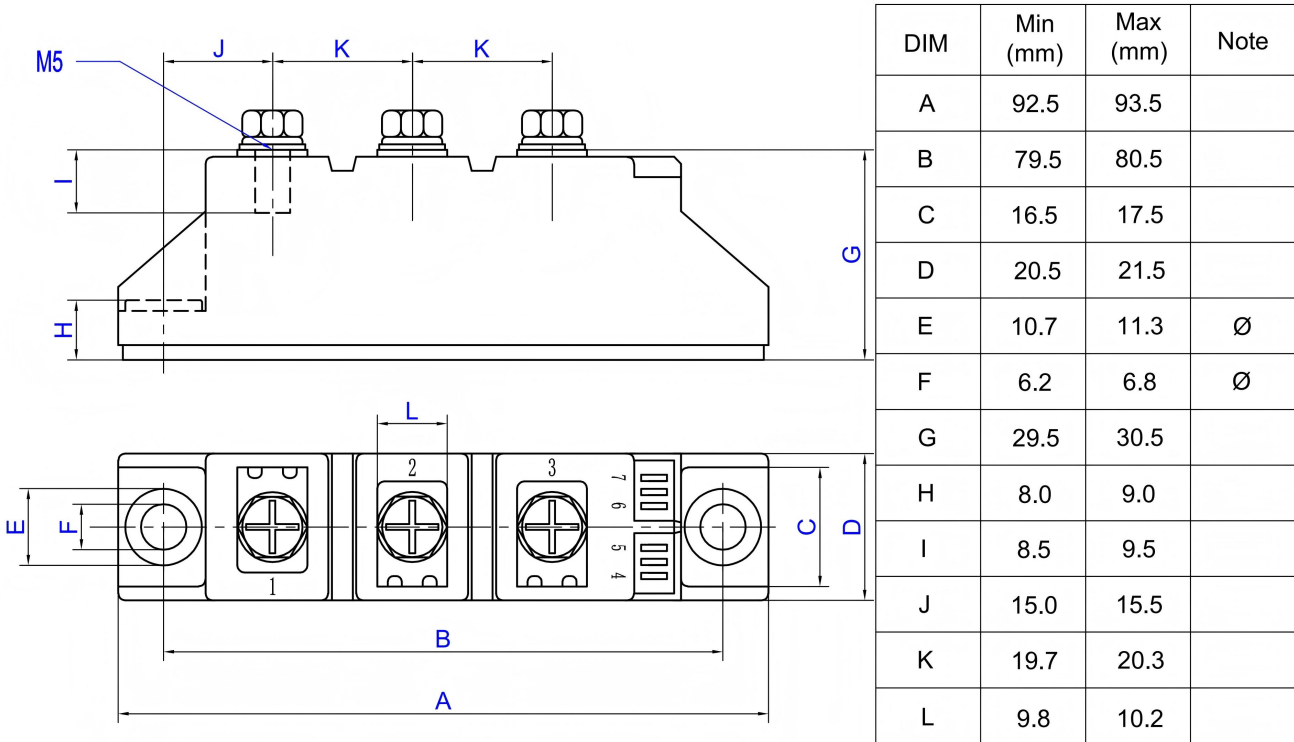


Fig3. Typical Reverse Current

Package Outline Information

CASE: F1



Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	40	10
Outer Carton	545	295	240	120



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