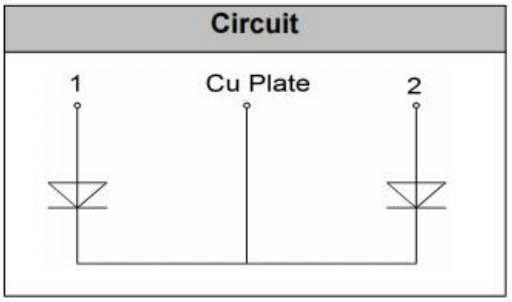


Schottky Rectifier Modules

VRRM 100V
IFAV 600 A



Applications

- Inversion Welder
- Plating Power Supply
- Gemeral Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper

Features

- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability

Maximum Ratings

Symbol	Conditions	Values	Units
V_R		100	V
I_{FAV}	T_C=105°C, Per Leg	300	A
	T_C=105°C, Per Module	600	A
I_{FSM}	t=10ms T_J=25℃	4000	A
I^2t	t=10ms T_J=25℃	80000	A^2s
T_J		-40 to +150	℃
Tstg		-40 to +125	℃
Mt	To Terminals(M6)	5±15%	N·m
Ms	To Heatsink(M6)	5±15%	N·m
Weight		85	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Junction to Case(Per Leg)	0.2	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I_{RM}	V_R=V_{RRM}	--	--	1	mA
	V_R=V_{RRM}, T_J=125°C	--	--	20	mA
V_F	I_F=300A	--	--	0.9	V
	I_F=300A, T_J=125°C	--	--	0.8	V
r_F	T_J=125℃		0.7		mΩ
VF0			0.7		V

Performance Curves

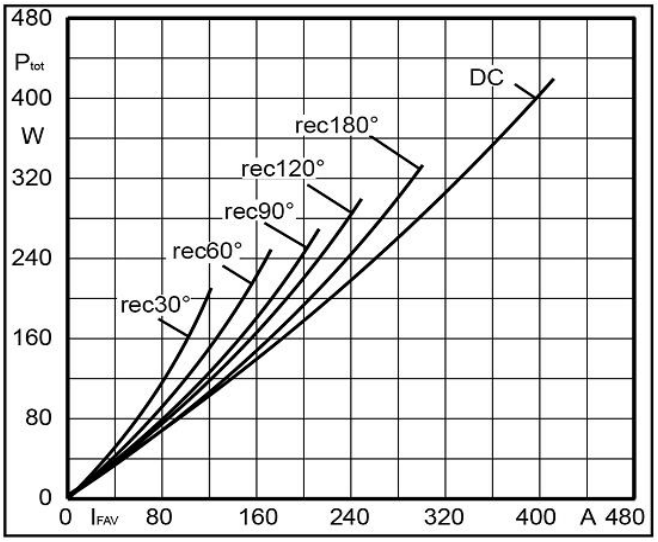


Fig1. Power dissipation

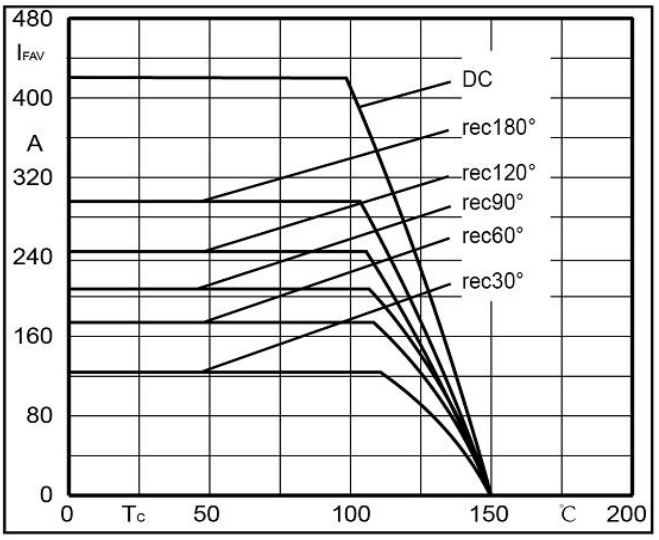


Fig2.Forward Current Derating Curve

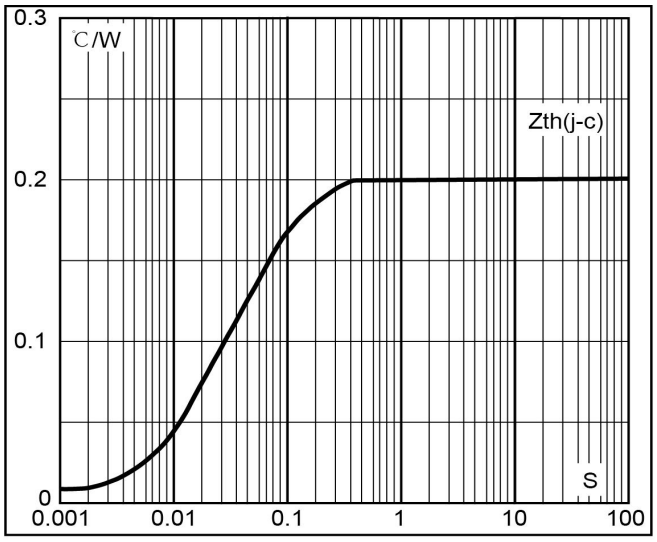


Fig3. Transient thermal impedance

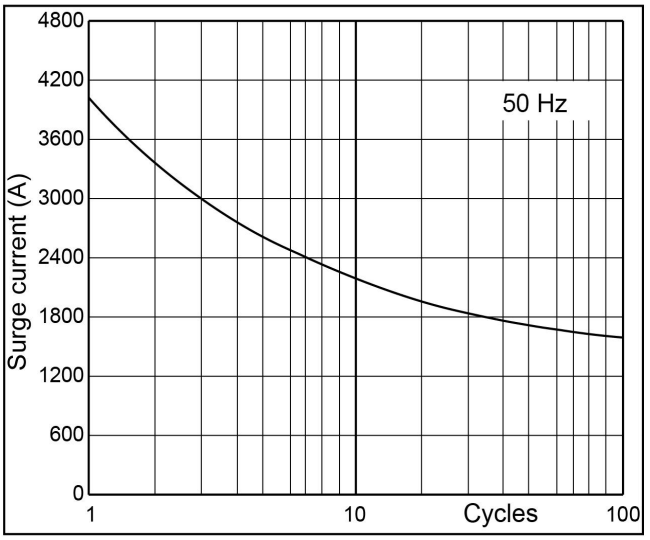


Fig4. Max Non-Repetitive Forward Surge Current

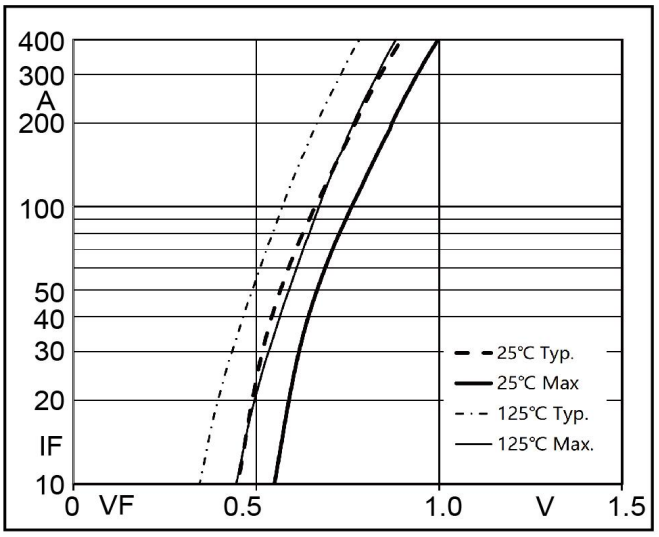
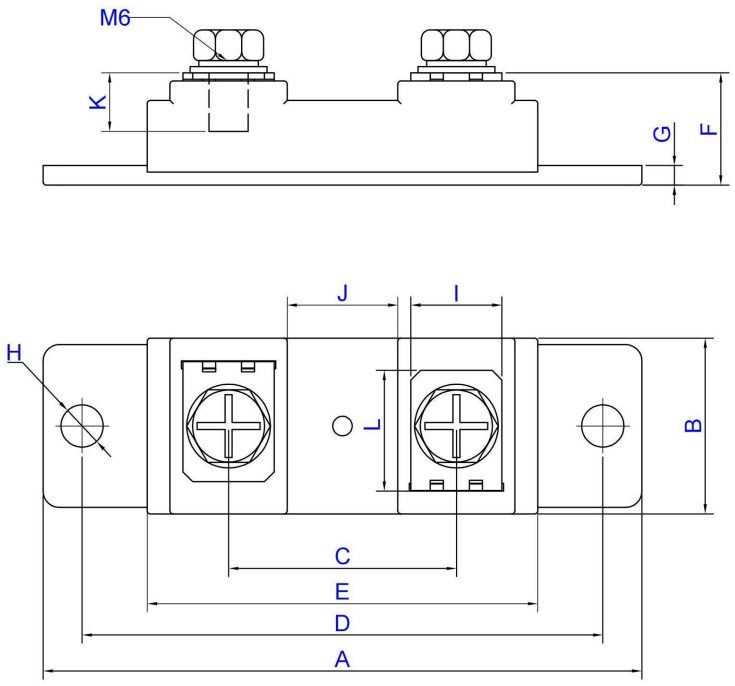


Fig5. Forward Characteristics

Package Outline Information

CASE: F3



DIM	Min (mm)	Max (mm)	Note
A	91.5	92.5	
B	26.5	27.5	
C	34.5	35.5	
D	79.5	80.5	
E	59.5	60.5	
F	16.5	17.5	
G	2.8	3.2	
H	6.2	6.8	Ø
I	13.8	14.2	
J	16.5	17.5	
K	8.5	9.5	
L	18.2	18.8	

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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