



FP300F40ADFF1

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	300A
V_{RRM}	400 V
$V_F(typ)$	0.98V
$T_{rr} (typ)$	65ns

用途

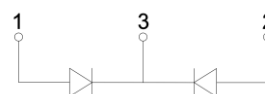
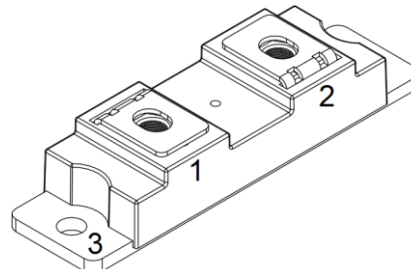
- 逆变焊机
- 开关电源
- UPS
- 超声清洗机和焊机
- PFC

APPLICATIONS

- Inversion Welder
- Switch power supply
- UPS
- Ultrasonic Cleaner and Welder
- PFC

封装 Package

FF1



产品特性

- 超快恢复时间
- 软恢复特性
- 低正向压降
- 低漏电流

FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Forward Voltage
- Low Leakage Current

订货信息 ORDER MESSAGE

订货型号 Order codes	印记 Marking	封装 Package	包装 Packaging
FP300F40ADFF1	FP300F40ADFF1	FF1	盒装



**绝对最大额定值 ABSOLUTE RATINGS** ($T_c=25^{\circ}\text{C}$)

项 目 Parameter		符 号 Symbol	数 值 Value	单 位 Unit
Peak Repetitive Reverse Voltage		V_{RRM}	400	V
Average Forward Rectified Current $T_c=90^{\circ}\text{C}$	Per Diode	$I_{F(AV)}$	150	A
	Per Moudle		300	
RMS Forward Current	Per Diode	$I_{F(RMS)}$	210	A
Non-Repetitive Surge Forward Current $t=8.3\text{ms}$		I_{FSM}	2100	A
I^2T Rating for Fusing ($t=8.3\text{ms}$)		I^2T	18300	A^2S
Power Dissipation		P_D	1200	W
Junction Temperature		T_j	$-40\sim+150$	$^{\circ}\text{C}$
Storage temperature range		T_{STG}	$-40\sim+125$	$^{\circ}\text{C}$
Torque Module to Sink、Module Electrodes Recommended (M6)		Torque	3.0~4.7	Nm

电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

项 目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 Unit
V _R	I _R =50μA		400	-	-	V
I _R	T _j =25℃	V _R =V _{RRM}	-	-	0.5	mA
	T _j =125℃		-	-	2	mA
V _F	T _j =25℃	I _F =150A	-	0.98	1.05	V
	T _j =125℃		-	-	0.95	V
T _{rr}	I _F =1A,V _R =30V, di _F /dt=-200A/μs		-	65	80	ns
T _{rr}	I _F =150A,V _R =200V,di _F /dt=200A/μs		-	110	-	ns
I _{RM}	T _j =25℃		-	10.5	-	A
T _{rr}	I _F =150A,V _R =200V,di _F /dt=200A/μs		-	219	-	ns
I _{RM}	T _j =125℃		-	21	-	A

热特性 THERMAL CHARACTERISTICS (maximum)

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
Thermal Resistance Junction to Case	$R_{th(j-c)}$	0.08	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

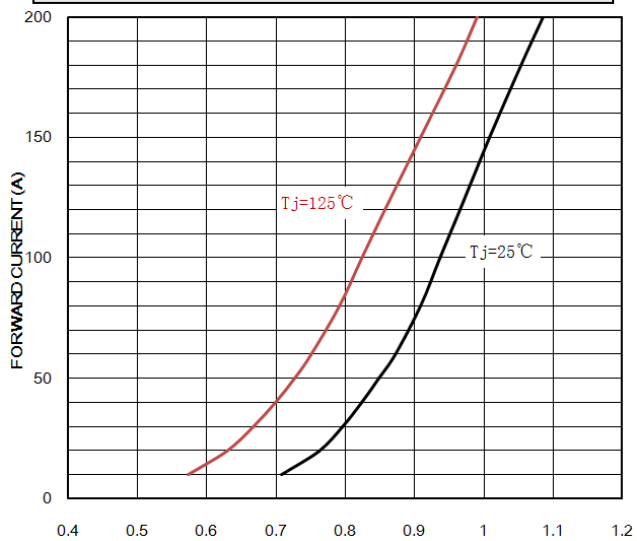


Fig.2 TYPICAL REVERSE CHARACTERISTICS

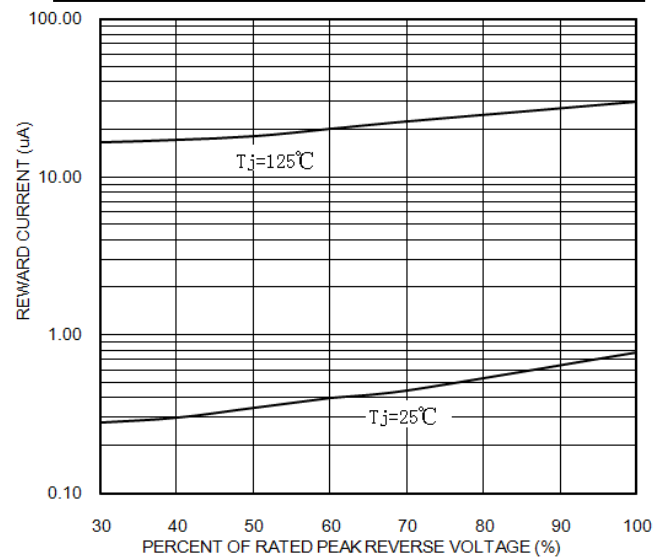


Fig.3 Reverse recovery time versus di/dt

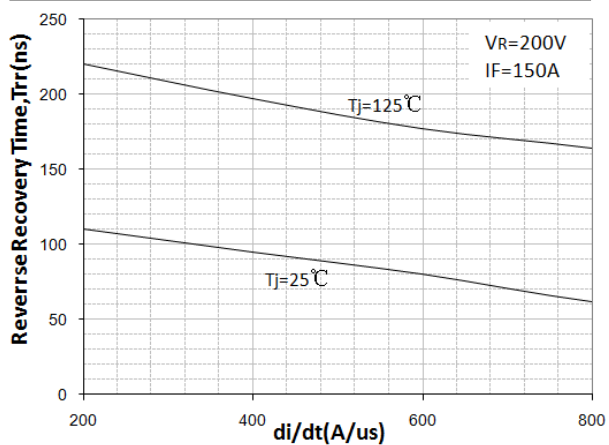
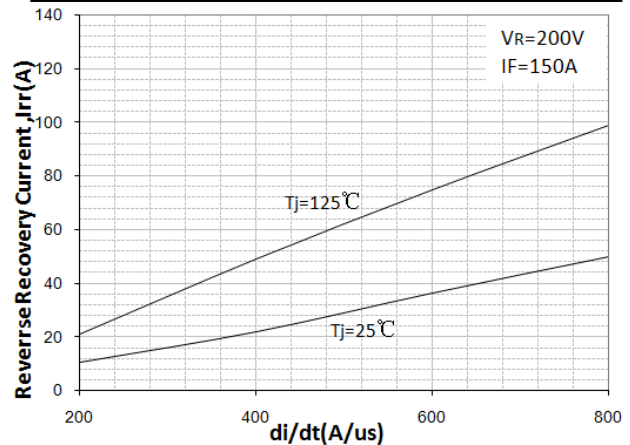


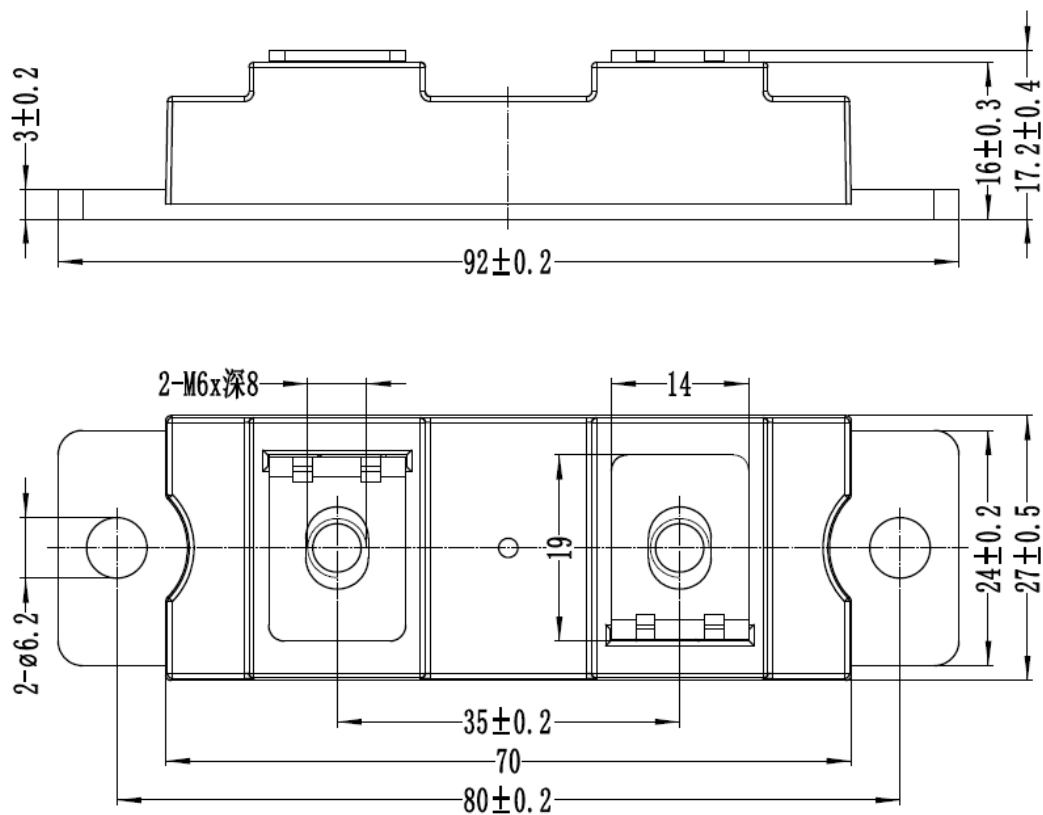
Fig.4 Peak reverse recovery current versus di/dt





外形尺寸 PACKAGE MECHANICAL DATA

单位 Unit: mm





注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

NOTES

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co, Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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