



FP15F60AA

主要参数 MAIN CHARACTERISTICS

IF(AV)	15A
VRRM	600 V
VF(typ)	1.4V
Trr (typ)	29ns

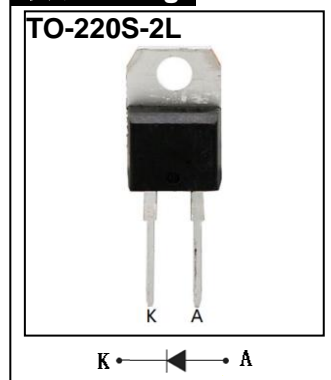
用途

- 逆变器
- 开关电源
- PFC
- 反并联二极管

APPLICATIONS

- Inverters
- Switch power supply
- PFC
- Anti Parallel Diode

封装 Package



产品特性

- 内绝缘封装
- 低功耗, 高效率
- 高可靠性

FEATURES

- Internal isolated package
- Low power loss, high efficiency
- High reliability

订货信息 ORDER MESSAGE

订货型号 Order codes		印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube		
FP15F60AA-CF-B	FP15F60AA-CF-BR	FP15F60AA	TO-220S-2L

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
反向重复峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	600	V
平均正向整流电流 $T_c=100^\circ\text{C}$ Average Forward Rectified Current	$I_{F(AV)}$	15	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$	I_{FSM}	180	A
结温 Junction Temperature	T_j	-50~+150	$^\circ\text{C}$
存储温度 Storage temperature range	T_{STG}	-50~+150	$^\circ\text{C}$

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	$I_R=50\mu\text{A}$		600	680		V
I_R	$T_j=25^\circ\text{C}$	$V_R=V_{RRM}$			10	μA
	$T_j=125^\circ\text{C}$				250	μA
V_F	$T_j=25^\circ\text{C}$	$I_F=15\text{A}$		1.4	1.8	V
	$T_j=125^\circ\text{C}$			1.2	1.6	V
C_j	$V_R=4.0\text{V}, f=1.0\text{MHz}$			100		pF
T_{rr}	$I_F=1\text{A}, V_R=30\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$			29	45	ns
T_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$			27	40	ns
T_{rr}	$I_F=15\text{A}, V_R=400\text{V}, di_F/dt=200\text{A}/\mu\text{s}$			165		ns
I_{RM}	$T_j=125^\circ\text{C}$			6.2		A

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	$R_{th(j-c)}$	1.9	$^\circ\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

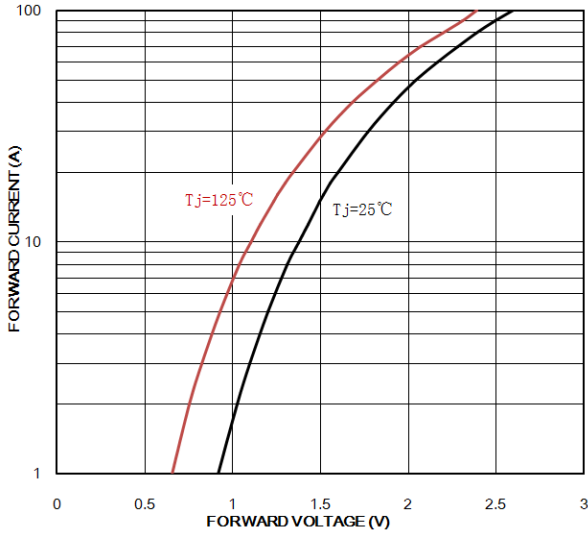


Fig.2 TYPICAL REVERSE CHARACTERISTICS

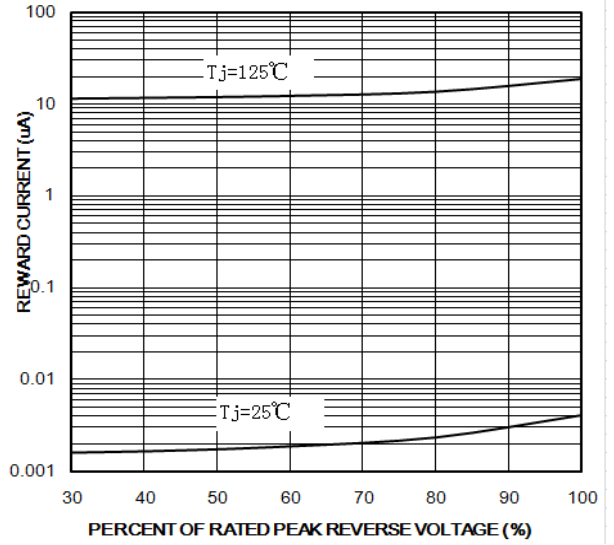


Fig.3 TYPICAL JUNCTION CAPACITANCE

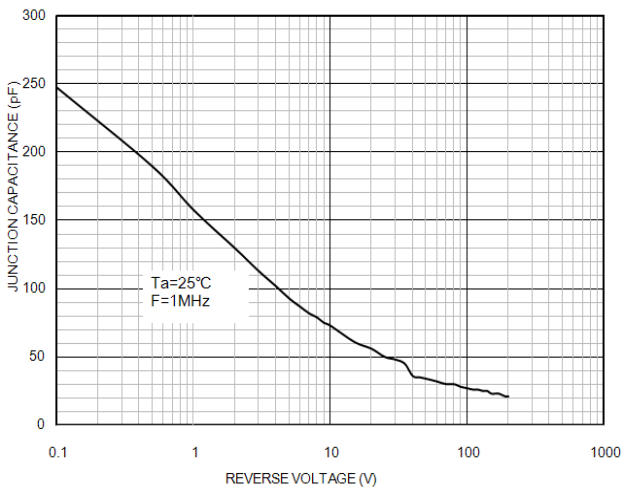


Fig.4 Reverse recovery time versus diF/dt

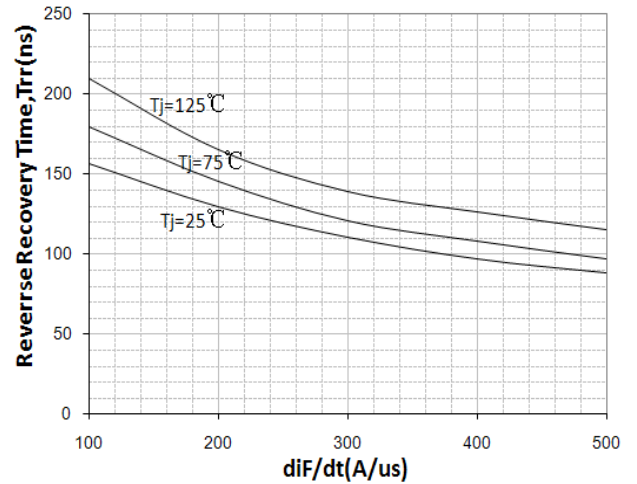
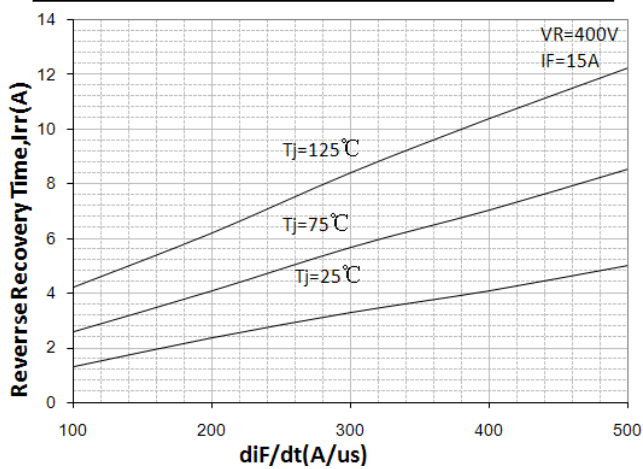


Fig.5 Peak reverse recovery current versus diF/dt

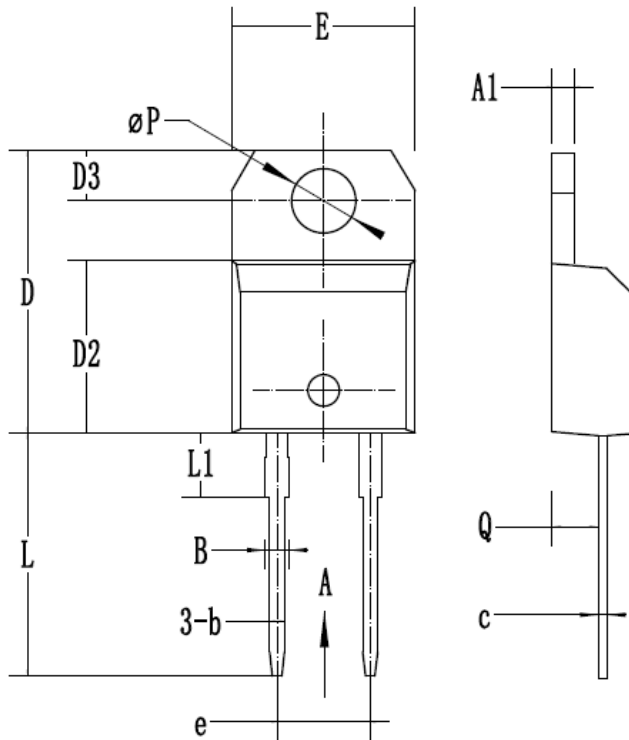




外形尺寸 PACKAGE MECHANICAL DATA

TO-220S-2L

单位 Unit : mm



SYMBOL	Unit (mm)	
	MIN	MAX
*A	4.28	4.66
*A1	1.10	1.40
*B	1.20	1.60
*b	0.66	0.96
*c	0.35	0.65
*D	14.90	16.40
*D2	8.50	9.70
*D3	2.54	3.06
*E	9.63	10.63
*e	4.78	5.38
*L	13.00	14.00
*L1	3.40	4.00
*Q	2.35	2.75
* ϕP	3.55	4.06





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