



FP15F60AA

主要参数 MAIN CHARACTERISTICS

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

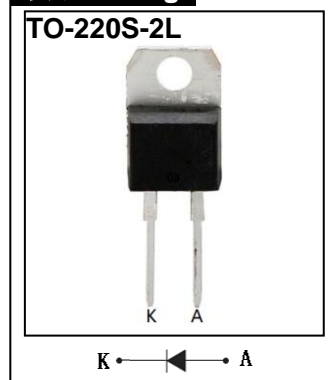
用途

- 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 (Tc=25°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°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=8.3ms	I _{FSM}	180	A
结温 Junction Temperature	T _j	-50~+150	°C
存储温度 Storage temperature range	T _{STG}	-50~+150	°C

电特性 ELECTRICAL CHARACTERISTICS (Tc=25°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		600	680		V
I _R	T _j =25°C	V _R =V _{RRM}			10	μA
	T _j =125°C				250	μA
V _F	T _j =25°C	I _F =15A		1.4	1.8	V
	T _j =125°C			1.2	1.6	V
C _j	V _R = 4.0V, f = 1.0 MHz			100		pF
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs			29	45	ns
T _{rr}	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A			27	40	ns
T _{rr}	I _F =15A, V _R =400V, di _F /dt=200A/μs			165		ns
I _{RM}	T _j =125°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	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

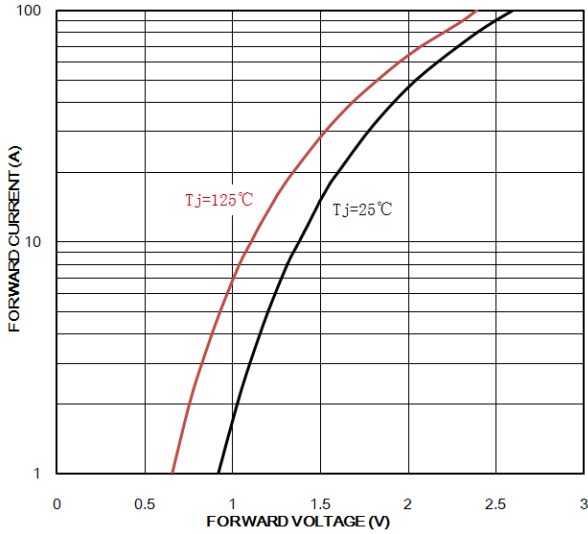


Fig.2 TYPICAL REVERSE CHARACTERISTICS

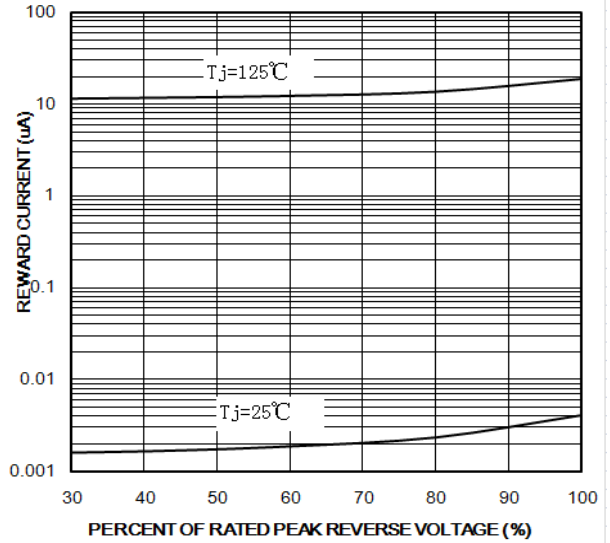


Fig.3 TYPICAL JUNCTION CAPACITANCE

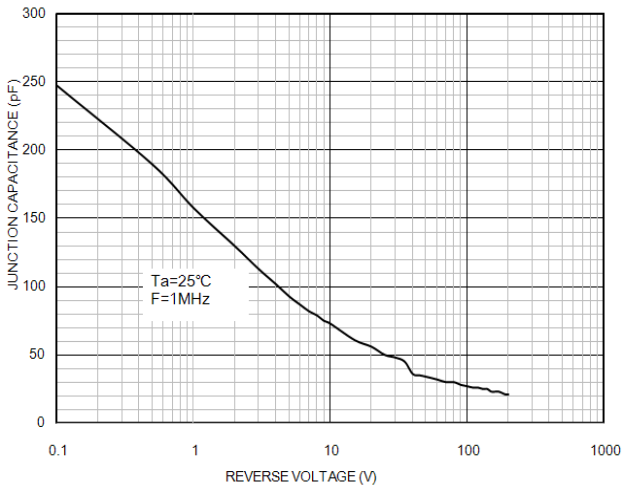


Fig.4 Reverse recovery time versus diF/dt

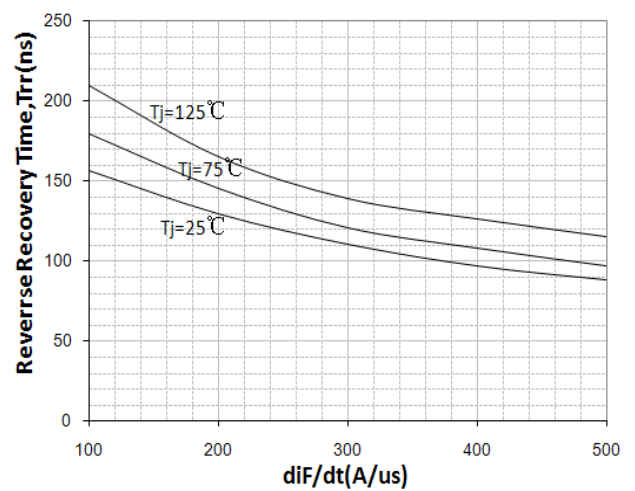
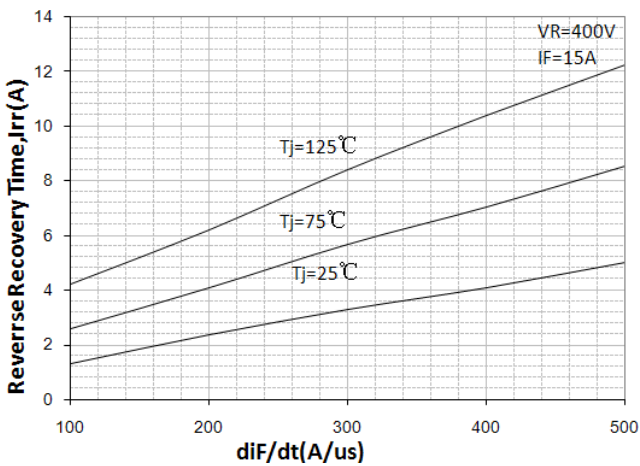


Fig.5 Peak reverse recovery current versus diF/dt

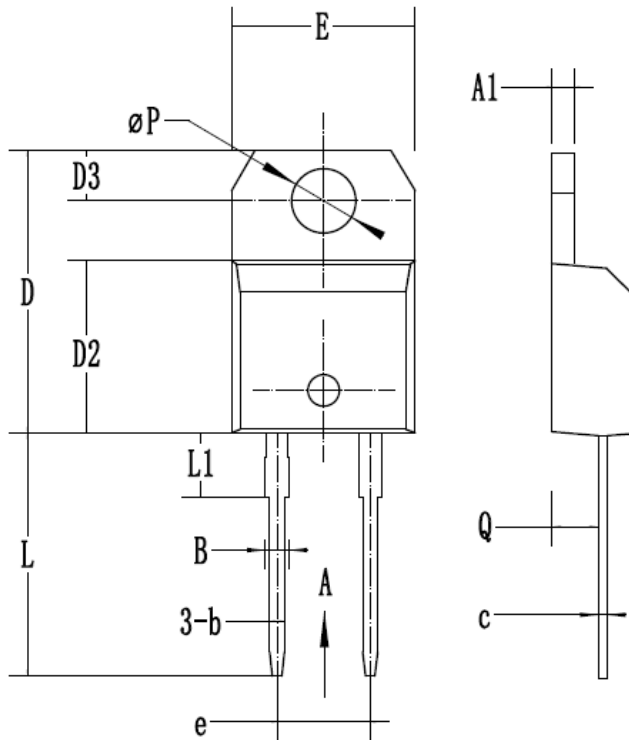




外形尺寸 PACKAGE MECHANICAL DATA

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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