



15F60HF/15F60C

主要参数 MAIN CHARACTERISTICS

IF(AV)	15A
VRRM	600 V
Tj(max)	150℃
VF(typ)	1.40V
trr (typ)	27ns

用途

- 吸收回路
- 开关电源
- UPS
- 高频开关器件并联二极管

APPLICATIONS

- Snubber diode
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

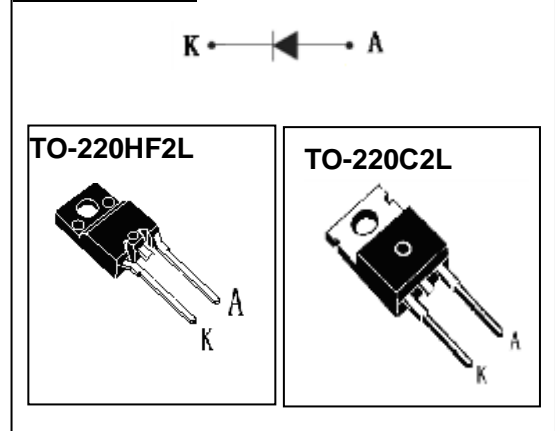
产品特性

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High reliability
- RoHS product

封装 Package



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		
15F60HF -FA-B	15F60HF -FA-BR	15F60HF	TO-220HF2L
15F60C -C-B	15F60C -C-BR	15F60C	TO-220C2L



**绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Repetitive peak reverse voltage	V _{RRM}	600	V
正向平均整流电流 Average forward current T _C =100°C	I _{F(AV)}	15	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=10ms	I _{FSM}	150	A
结温 Junction Temperature	T _j	-50~+150	°C
储存温度 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 _{RRM}	I _R =50μA	600			V
I _R	T _j =25°C			50	μA
	T _j =125°C			500	μA
V _F	T _j =25°C		1.40	1.8	V
	T _j =125°C		1.20	1.6	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		27	45	ns
	I _F =1A, V _R =30V, di _F /dt=100A/μs		40.5	60	ns
t _{rr}	I _F =15A, V _R =400V, di _F /dt=200A/μs		129.5		ns
I _{RM}	I _F =15A, V _R =400V, di _F /dt=200A/μs		2.37		A
t _{rr}	I _F =15A, V _R =400V, di _F /dt=200A/μs		165		ns
I _{RM}	T _j =125°C		6.22		A

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	TO-220HF2L	R _{th(j-c)}	4.6	°C/W
	TO-220C2L	R _{th(j-c)}	1.5	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

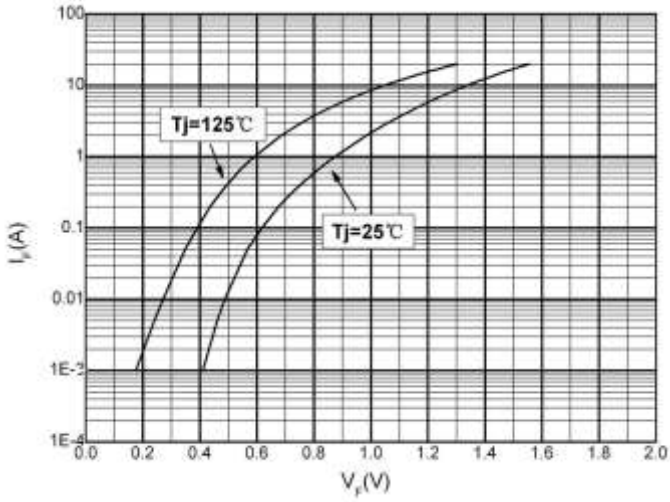


Fig.2 TYPICAL REVERSE CHARACTERISTICS

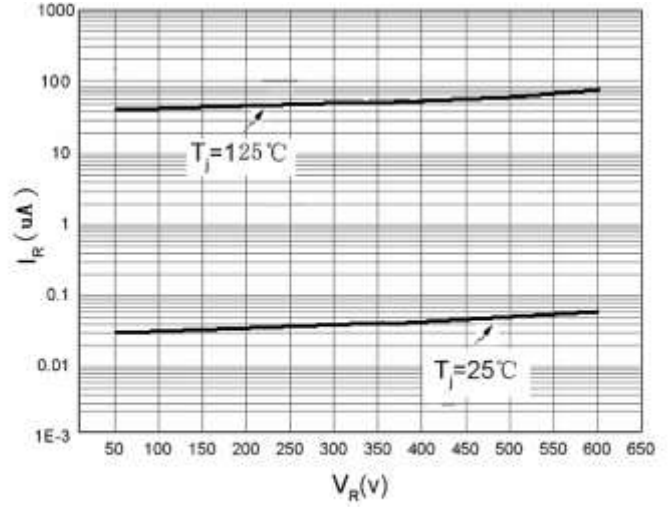


Fig.3 FORWARD CURRENT DERATING CURVE

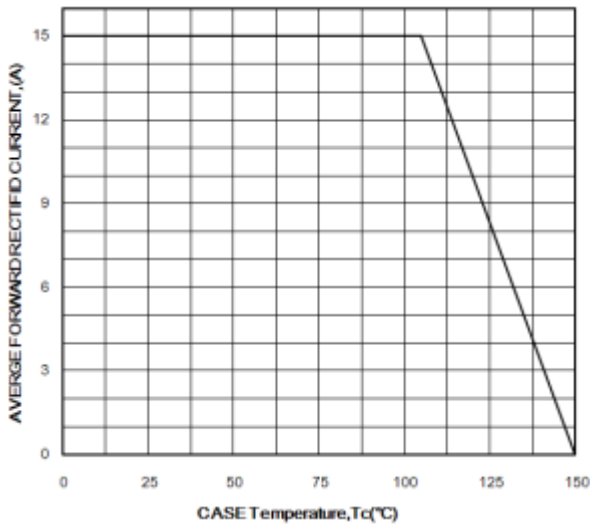


Fig.4 TYPICAL JUNCTION CAPACITANCE

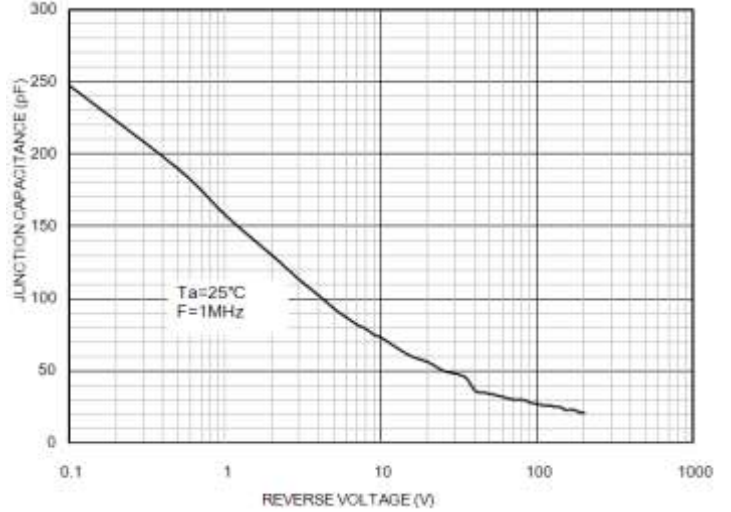


Fig.5 Reverse recovery time versus diF/dt

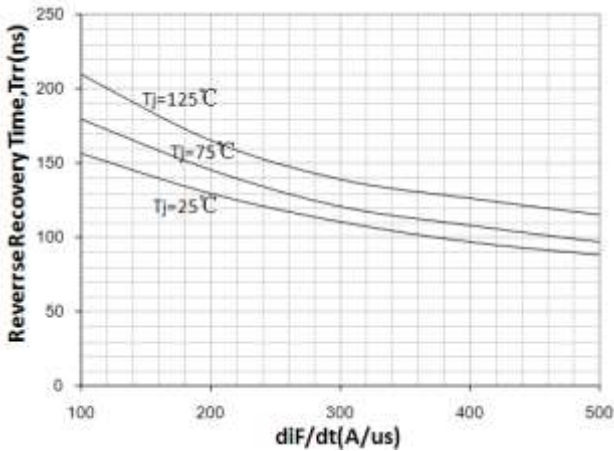


Fig.6 Peak reverse recovery current versus diF/dt

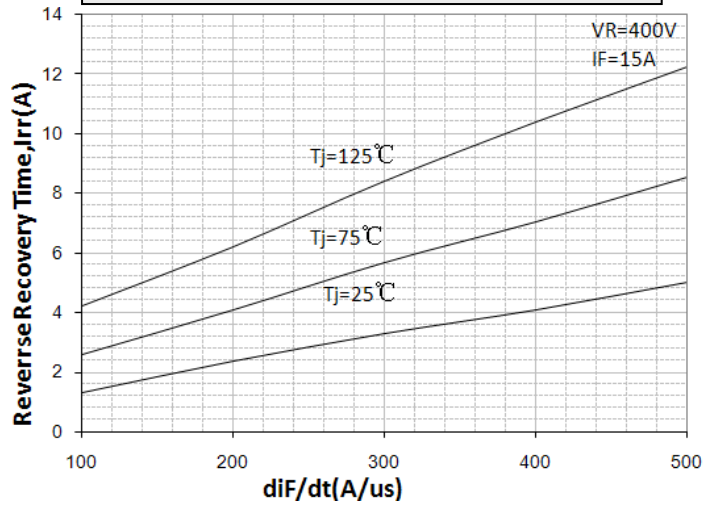
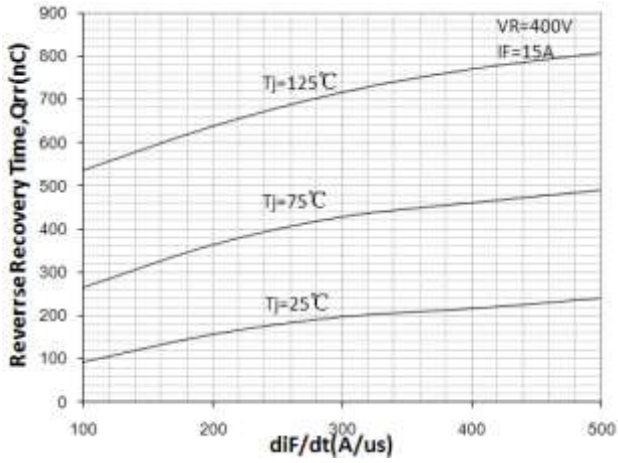




Fig.7 Reverse recovery charges versus dI_F/dt

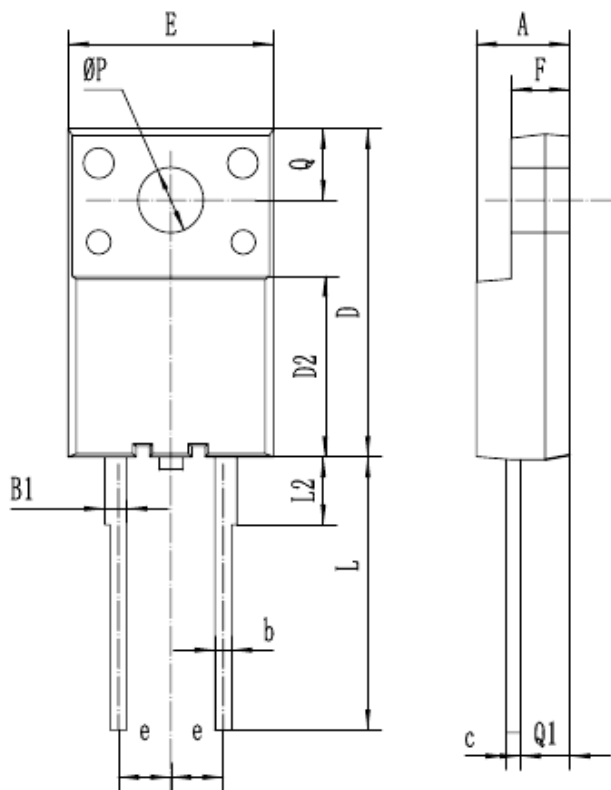




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF2L

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.7
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54 TYP	
F	2.3	3.3
L	13.0	14.0
L2	3.1	3.5
ØP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5

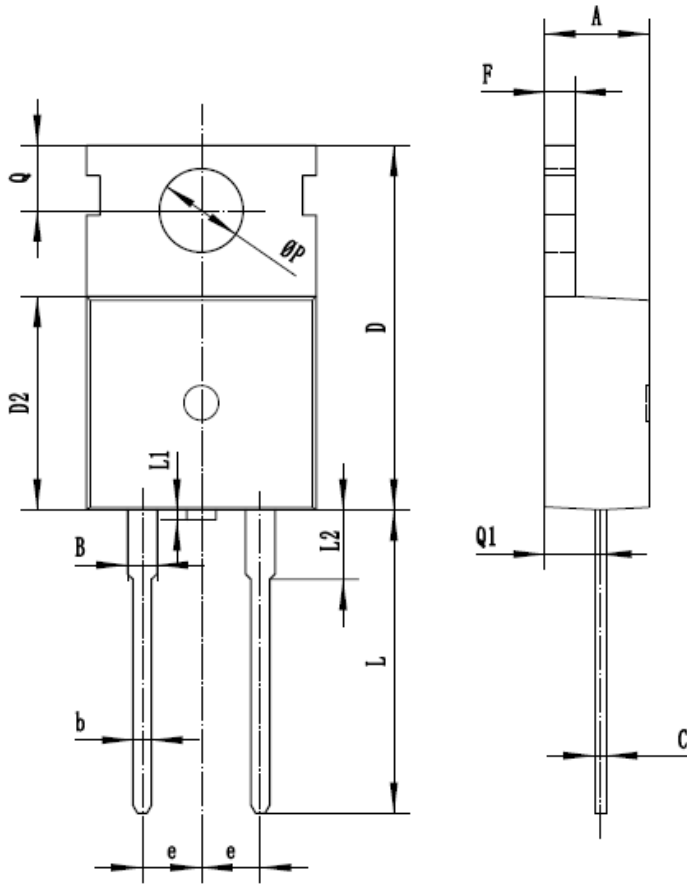




TO-220C2L

15F60HF/15F60C

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.30	4.70
B	1.22	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	2.39	2.69
F	1.25	1.40
L	12.60	13.60
L1	0.20	0.50
L2	2.80	3.20
Q	2.60	3.00
Q1	2.20	2.60
P	3.50	3.80





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- 4.本说明书如有版本变更不另外告知

NOTES

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