

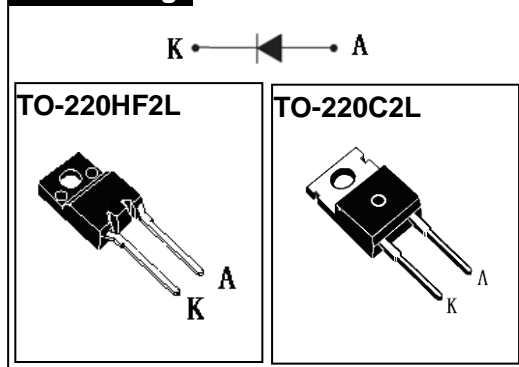


10F60HF/10F60C

主要参数 MAIN CHARACTERISTICS

IF(AV)	10A
VRRM	600 V
VF(typ)	1.35V
Trr (typ)	30ns

封装 Package



用途

- 有源功率校正电路
- 开关电源
- PFC

APPLICATIONS

- Active power factor correction
- Switch power supply
- PFC

产品特性

- 低正向压降
- 低功耗, 高效率
- 高可靠性

FEATURES

- Low forward voltage drop
- 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		
10F60HF-FL-B	10F60HF-FL-BR	10F60HF	TO-220HF-2L
10F60C-CL-B	10F60C-CL-BR	10F60C	TO-220C-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)}	10	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current t=10ms	I _{FSM}	100	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	-	-	V
I _R	T _j =25°C	V _R =V _{RRM}	-	-	10	μA
	T _j =125°C		-	-	200	μA
V _F	T _j =25°C	I _F =10A	-	1.35	1.8	V
	T _j =125°C		-	1.15	1.6	V
T _{rr}	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		-	30	45	ns
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs		-	30	45	ns
T _{rr}	I _F =10A, V _R =100V, di _F /dt=200A/μs		-	35	-	ns
I _{RM}	I _F =10A, V _R =100V, di _F /dt=200A/μs		-	2.5	-	A

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

项 目 Parameter	符 号 Symbol	封 装 Package	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	R _{th(j-c)}	TO-220HF-2L	4.5	°C/W
		TO-220C-2L	2.2	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

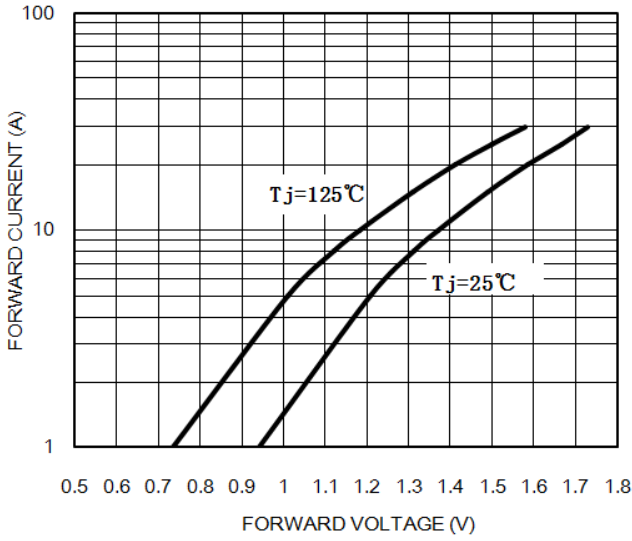


Fig.2 TYPICAL REVERSE CHARACTERISTICS

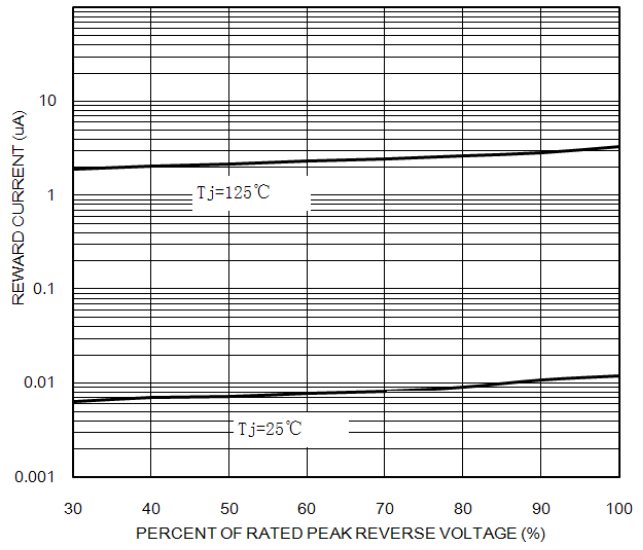


Fig.3 FORWARD CURRENT DERATING CURVE

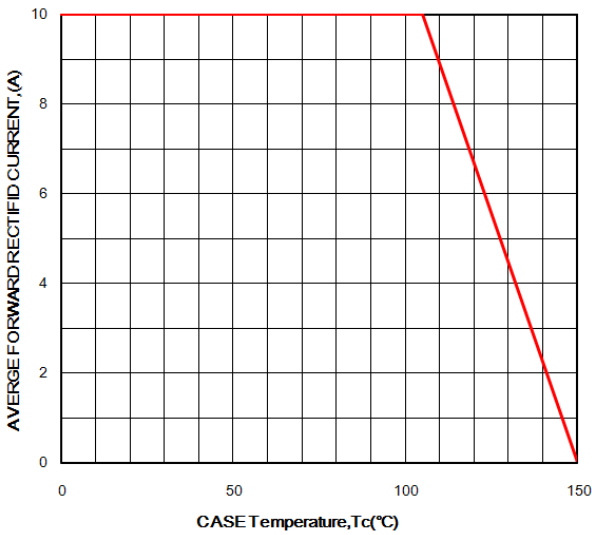
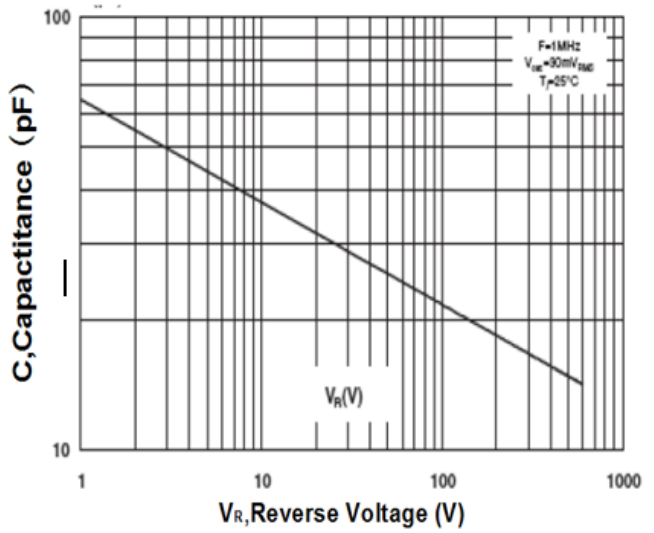


Fig.4 TYPICAL JUNCTION CAPACITANCE

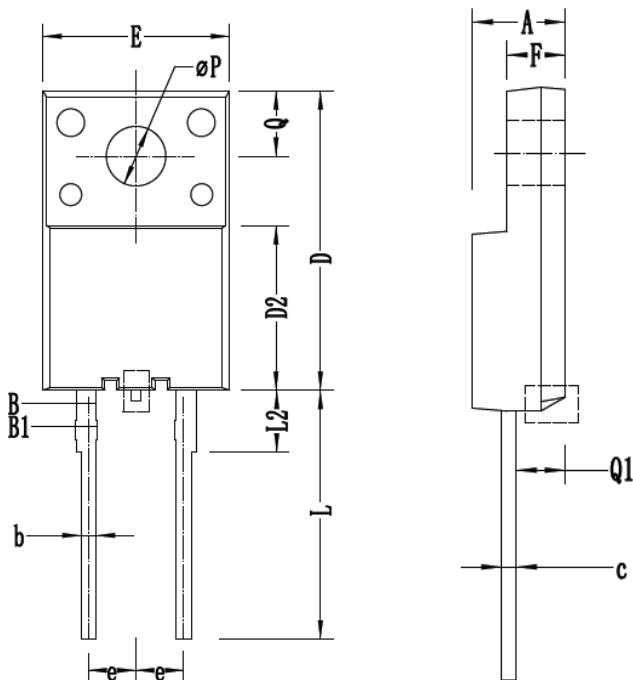




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF-2L

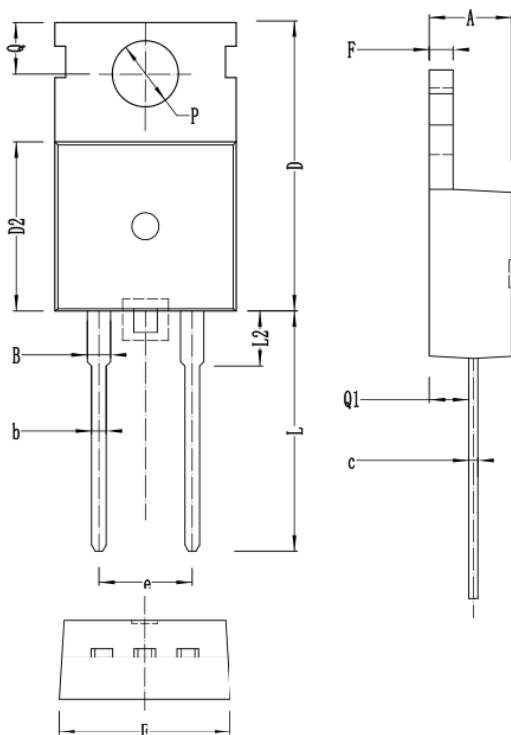
单位 Unit : mm



mm		
SYMBOL	MIN	MAX
A	4.00	5.00
B1	0.87	1.27
B	0.82	1.22
b	0.72	0.92
c	0.50	0.70
D	15.00	16.50
D2	7.80	9.40
E	9.62	10.62
e	2.54TYP	
F	2.30	3.30
L	12.00	14.00
L2	3.10	3.50
ΦP	3.00	3.40
Q	3.15	3.55
Q1	2.20	2.50

TO-220C-2L

单位 Unit : mm



符号 symbol	单位: mm	
	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	4.78	5.38
F	1.25	1.40
L	12.60	13.60
L2	2.80	3.20
ΦP	3.50	3.80
Q	2.60	3.00
Q1	2.20	2.60

注:

1. 虚框区域表示: 塑封体下方有、无余留, 塑封体背面有、无台阶, 均为我司受控外形;



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