

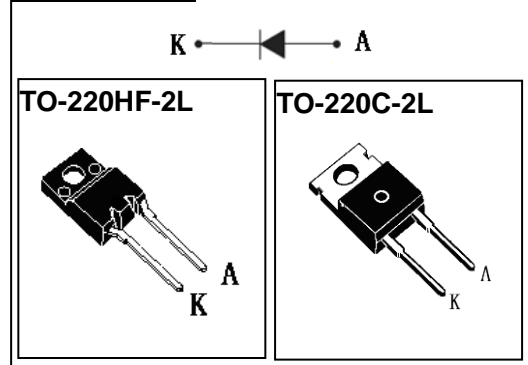


10F60UHF/10F60UC

主要参数 MAIN CHARACTERISTICS

IF(AV)	10A
VRRM	600 V
VF(typ)	1.6V
Trr (typ)	21ns

封装 Package



用途

- 吸收回路
- 开关电源
- UPS
- PFC

APPLICATIONS

- Snubber diode
- Switch power supply
- UPS
- 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		
10F60UHF-FL-B	10F60UHF-FL-BR	10F60UHF	TO-220HF-2L
10F60UC-CL-B	10F60UC-CL-BR	10F60UC	TO-220C-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	$I_{F(AV)}$	10	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10\text{ms}$	I_{FSM}	130	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	-	-	V
I_R	$T_j=25^\circ\text{C}$	$V_R=V_{RRM}$	-	-	10	μA
	$T_j=125^\circ\text{C}$		-	-	200	μA
V_F	$T_j=25^\circ\text{C}$	$I_F=10\text{A}$	-	1.6	2.2	V
	$T_j=125^\circ\text{C}$		-	1.4	2.0	V
T_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$		-	20	30	ns
T_{rr}	$I_F=1\text{A}, V_R=30\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$		-	21	30	ns

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	4.6	$^\circ\text{C}/\text{W}$
		TO-220C-2L	1.5	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

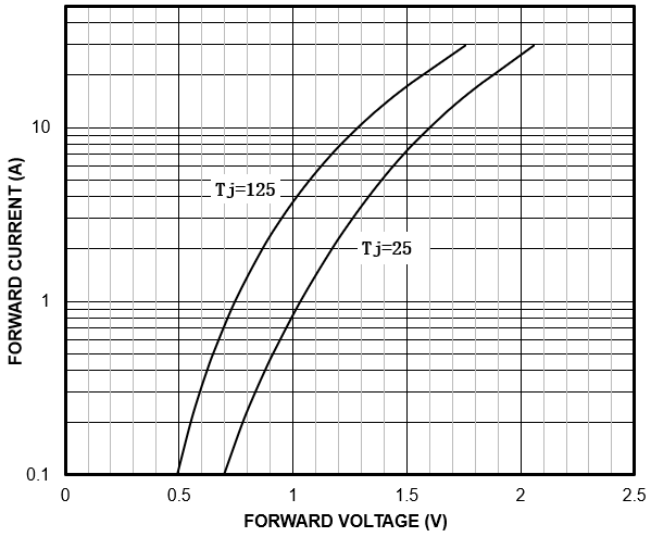


Fig.2 TYPICAL REVERSE CHARACTERISTICS

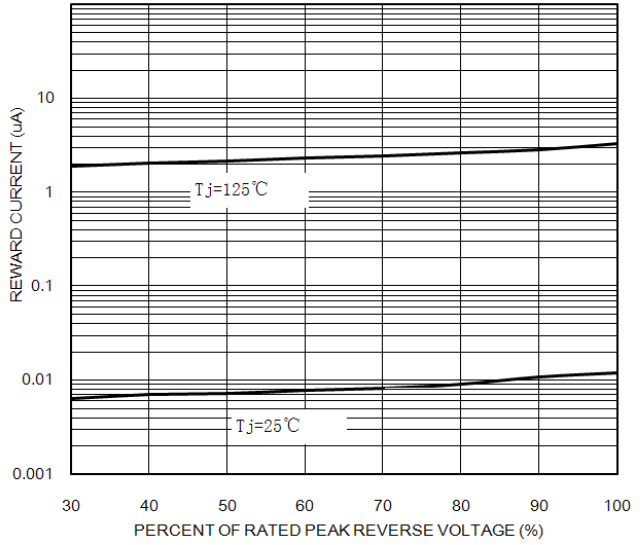


Fig.3 FORWARD CURRENT DERATING CURVE

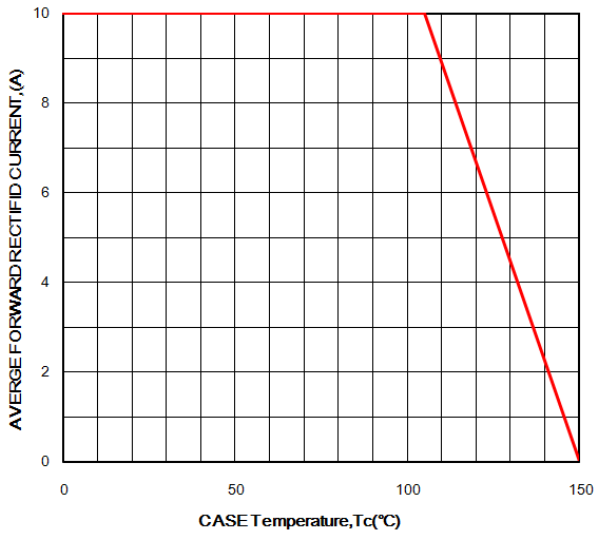
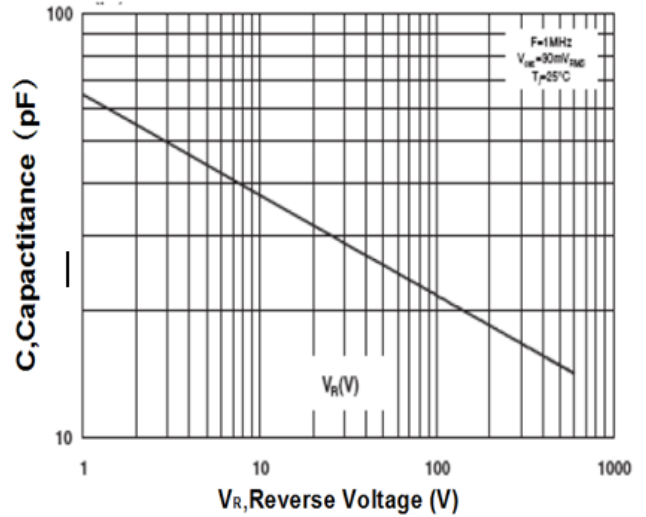


Fig.4 TYPICAL JUNCTION CAPACITANCE

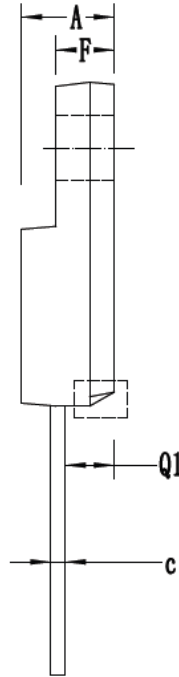
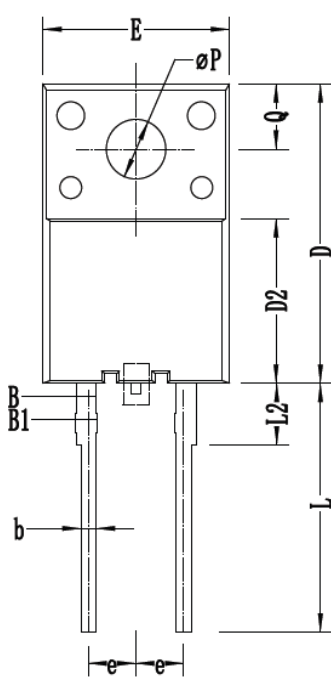




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF-2L

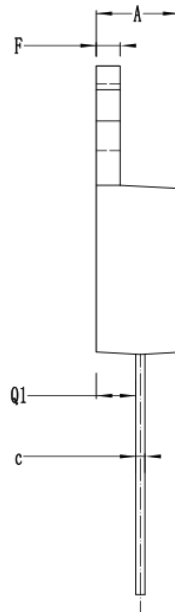
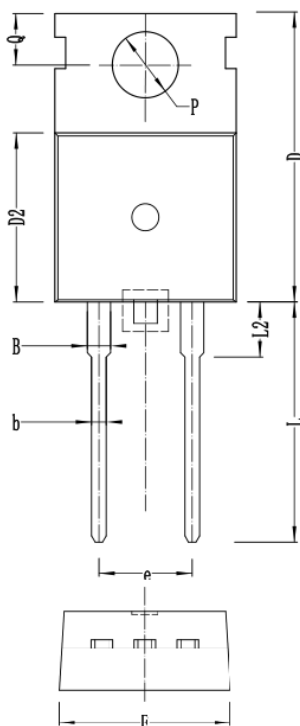
单位 Unit : mm



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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