



15F120UHF

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	15A
V_{RRM}	1200 V
$T_j(max)$	150℃
$V_F(max)$	3.2V
$T_{rr}(max)$	50ns

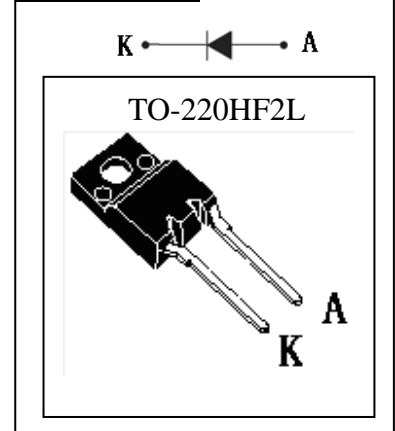
用途

- 开关电源
- 通用电路
- UPS

APPLICATIONS

- Switch power supply
- General circuits
- UPS

封装 Package



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

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	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
15F120UHF-GE-B	15F120UHF-GE-BR	N/A	N/A	15F120UHF	TO-220HF2L



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
最大反向重复峰值电压 Repetitive peak reverse voltage	V_{RRM}	1200	V
正向平均整流电流 Average forward current	$I_{F(AV)}$	15	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) $t=8.3\text{ms}$	I_{FSM}	120	A
结温 Junction Temperature	T_j	-50~+150	$^\circ\text{C}$
储存温度 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_{RRM}	$I_R=50\mu\text{A}$	1200			V
I_R	$T_j=25^\circ\text{C}$			10	μA
	$T_j=125^\circ\text{C}$			200	μA
V_F	$T_j=25^\circ\text{C}$			3.2	V
	$T_j=125^\circ\text{C}$			2.8	V
T_{rr}	$I_F=15\text{A}, V_R=30\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$		25	50	ns
T_{rr}	$I_F=15\text{A}, V_R=800\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$		320		ns
Q_{rr}			1500		nc
I_{rm}			7.2		A

热特性 THERMAL CHARACTERISTICS

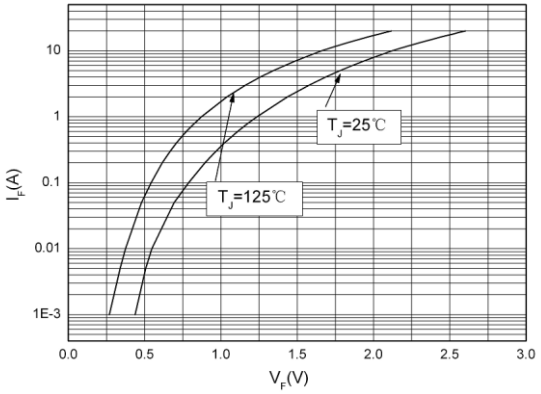
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	$R_{th(j-c)}$		1.2	$^\circ\text{C}/\text{W}$



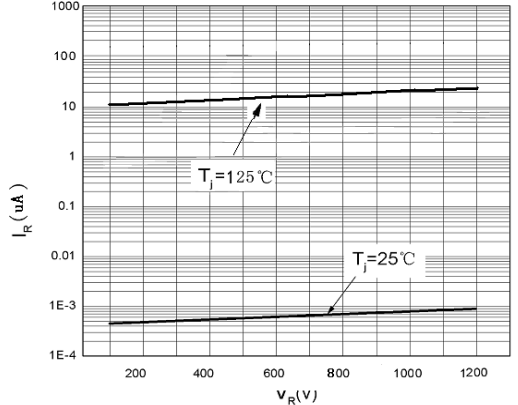


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

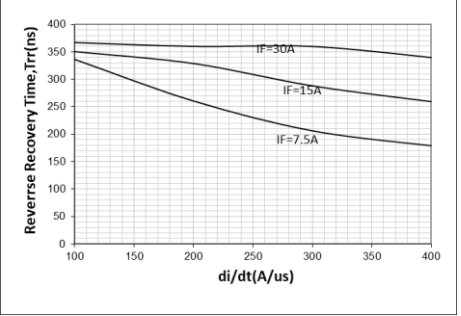
I_F vs V_F



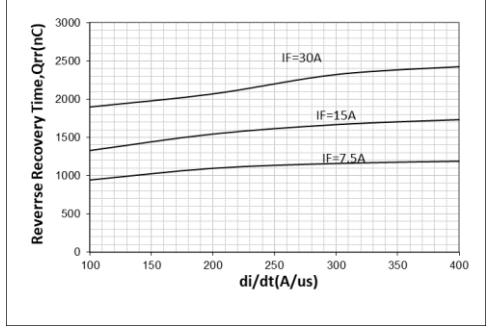
I_R vs V_R



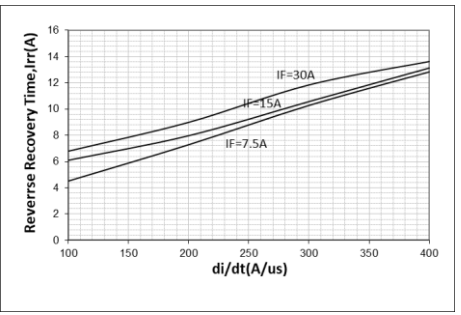
t_{rr} vs di/dt



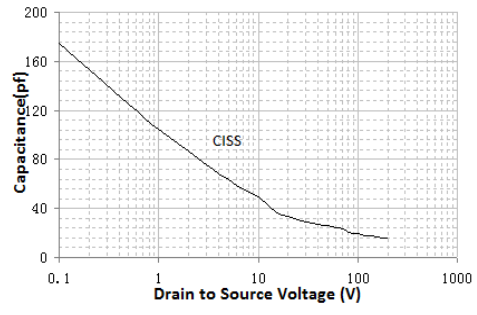
Q_{rr} vs di/dt



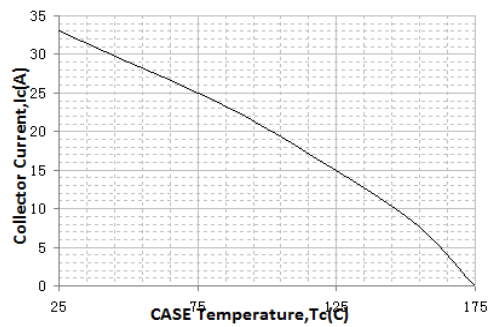
I_{RM} vs di/dt



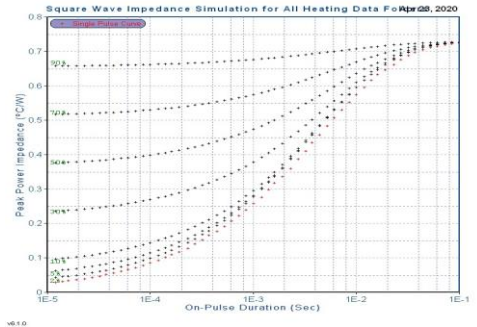
C_T vs V_R



I_F vs T_C

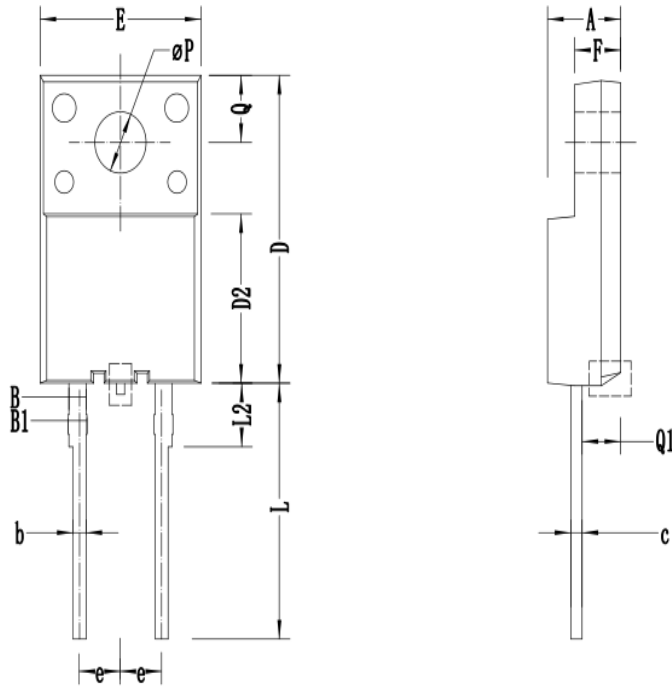


Z_{QJC} vs $tp(s)$



外形尺寸 PACKAGE MECHANICAL DATA
TO-220HF2L

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





注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
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