



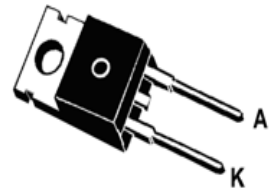
FP8U130BA

主要参数 MAIN CHARACTERISTICS

IF(AV)	8A
VRRM	1300V
VF(typ)	2.4V
Trr (typ)	30ns

封装 Package

K A



TO-220C-2L

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
- 低正向压降

FEATURES

- Low power loss, high efficiency
- High reliability
- Low forward voltage drop

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		
FP8U130BA-CL-B	FP8U130BA -CL-BR	FP8U130BA	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}	1300	V
平均正向整流电流 ($T_c=125^{\circ}\text{C}$) Average Forward Rectified Current	$I_{F(AV)}$	8	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10.0\text{ms}$	I_{FSM}	100	A
结 温 Junction Temperature	T_j	$-55\sim+175$	$^{\circ}\text{C}$
存储温度 Storage Temperature Range	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

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 =100μA		1300	-	-	V
I _R	T _j =25℃	V _R =1200V	-	-	20	μA
	T _j =150℃		-	-	150	μA
V _F	T _j =25℃	I _F =8A	-	2.4	3.1	V
	T _j =150℃		-	1.8	2.5	V
T _{rr}	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		-	30	45	ns
T _{rr}	I _F =8A, V _R =600V, dI _F /dt =-200A/μs T _j =25℃			58		ns
Q _{rr}				75		nc
I _{RRM}				2.98		A
T _{rr}	I _F =8A, V _R =600V, dI _F /dt =-200A/μs T _j =150℃		-	245	-	ns
Q _{rr}			-	630	-	nc
I _{RRM}			-	5.6	-	A

热特性 THERMAL CHARACTERISTICS (maximum)

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	$R_{th(j-c)}$	2.0	$^{\circ}\text{C}/\text{W}$



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 Typical Forward Characteristics

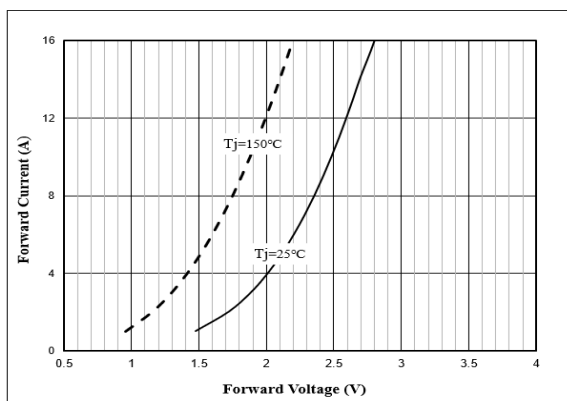


Fig.2 Typical Reverse Characteristics

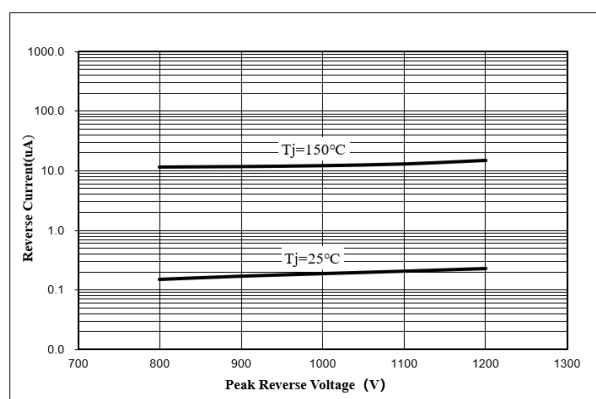
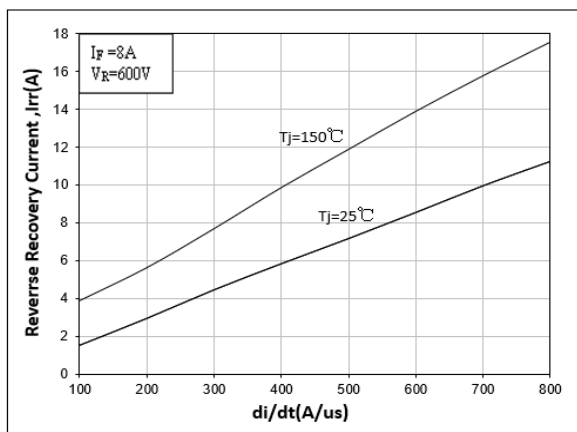
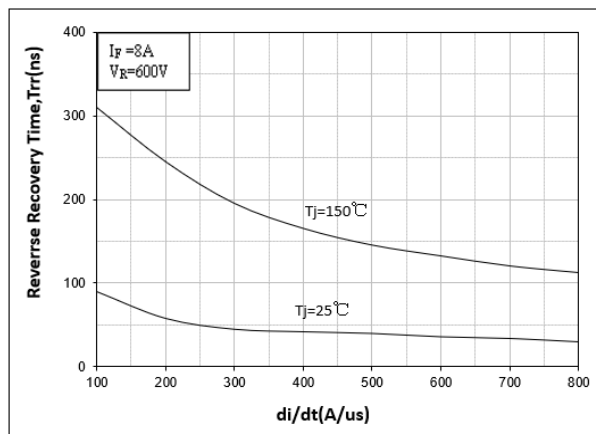
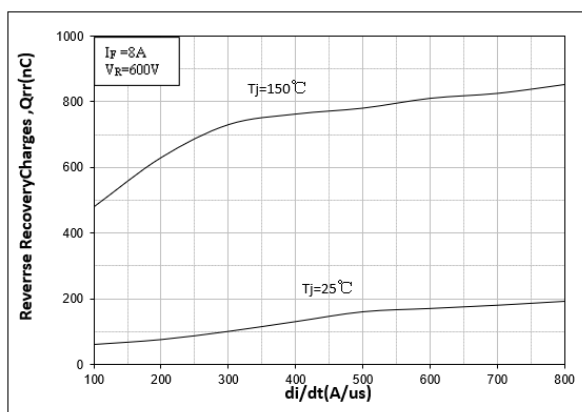
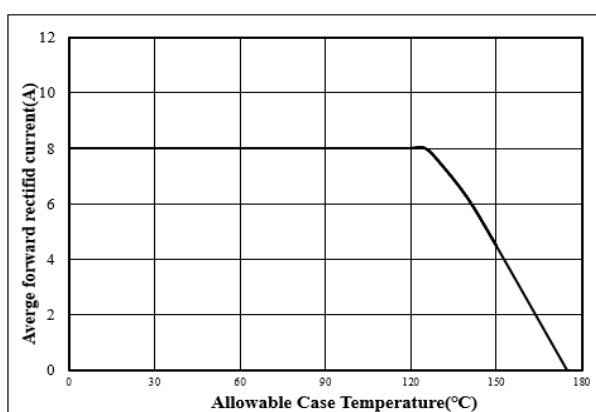
Fig.3 Reverse Recovery Current vs dI_F/dt Fig.4 Reverse Recovery Time vs dI_F/dt Fig.5 Reverse Recovery Charge vs dI_F/dt 

Fig.6 Forward Current vs Case Temperature

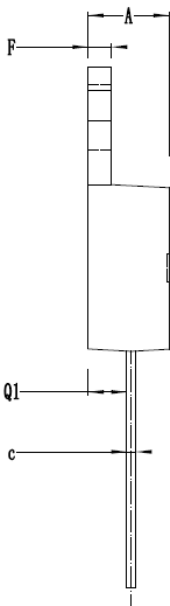
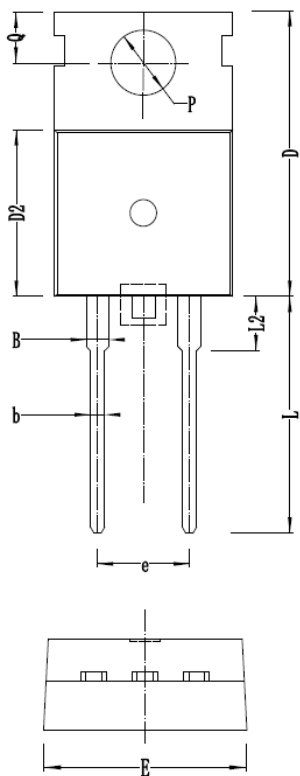




外形尺寸 PACKAGE MECHANICAL DATA

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. 虚线区域代表, 此位置有、无余留, 均为我司受控外形;



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