

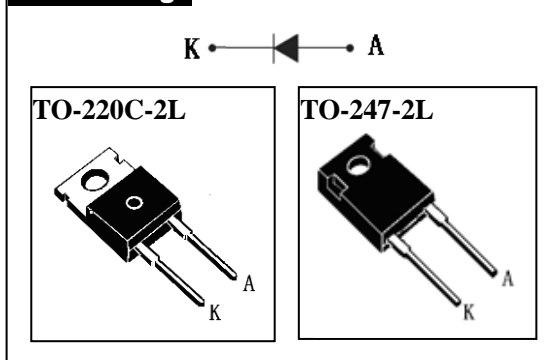


FP30U120BA

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	30A
V_{RRM}	1200V
$V_F(typ)$	2.9V
$T_{rr}(typ)$	43ns

封装 Package



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 supplies
- UPS
- Antiparalle diode for high frequency switching devices

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		
FP30U120BA-CL-B	FP30U120BA-CL-BR	FP30U120BA	TO-220C-2L
FP30U120BA-GL-B	FP30U120BA-GL-BR		TO-247-2L





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}	1200	V
平均正向整流电流 T _C =100°C Average Forward Rectified Current	I _{F(AV)}	30	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current t=10ms	I _{FSM}	300	A
结温 Junction Temperature	T _j	-55~+175	°C
存储温度 Storage Temperature	T _{STG}	-55~+175	°C

电特性 ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

项 目 Parameter	测 试 条 件 Test Conditions		最 小 值 Value(min)	典 型 值 Value(typ)	最 大 值 Value(max)	单 位 Unit
V _R	I _R =50μA		1200	-	-	V
I _R	T _j =25°C	V _R =V _{RRM}	-	-	100	μA
	T _j =150°C		-	-	500	μA
V _F	T _j =25°C	I _F =30A	-	2.9	3.5	V
	T _j =150°C		-	2.0	2.5	V
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-100A/μs			40	45	ns
T _{rr}	I _F =30A, V _R =200V, di _F /dt=200A/μs T _j =25°C			43	-	ns
Q _{rr}				80	-	nc
I _{RM}				3.5	-	A
T _{rr}	I _F =30A, V _R =200V, di _F /dt=200A/μs T _j =125°C			210	-	ns
Q _{rr}				585	-	nc
I _{RM}				6.5	-	A

热特性 THERMAL CHARACTERISTICS (maximum)

项 目 Parameter	符 号 Symbol	封装形式 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-220C-2L	1.3	°C/W
		TO-247-2L	0.6	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 Typical forward characteristics

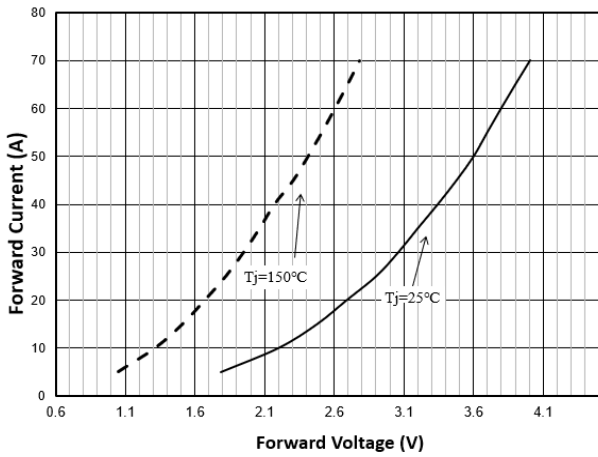


Fig.2 Typical reverse characteristics

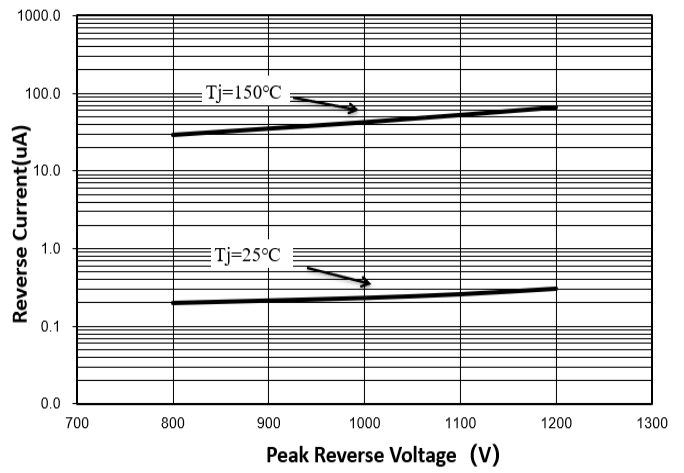


Fig.3 Peak reverse recovery current versus dI_F/dt

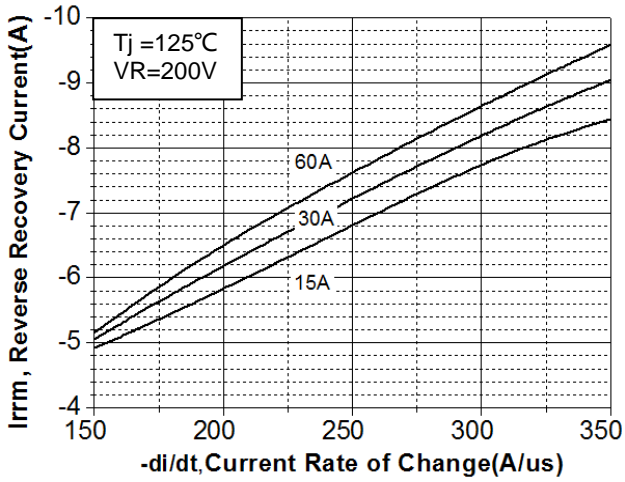
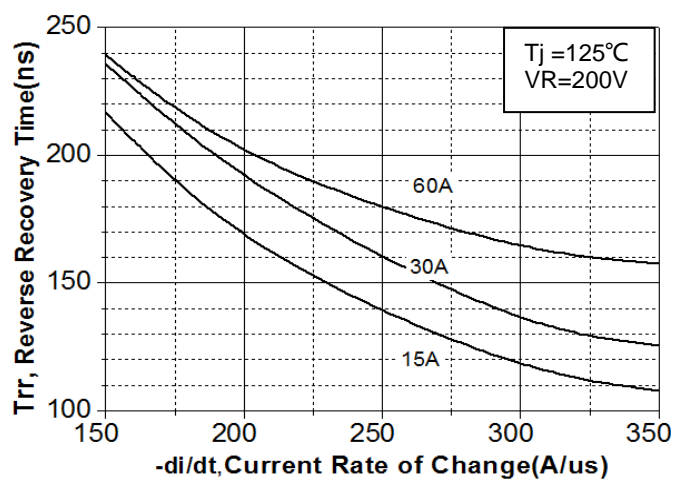


Fig.4 Reverse recovery time versus dI_F/dt

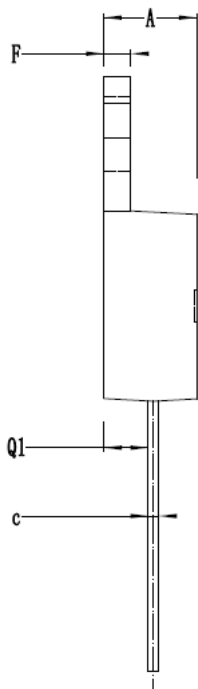
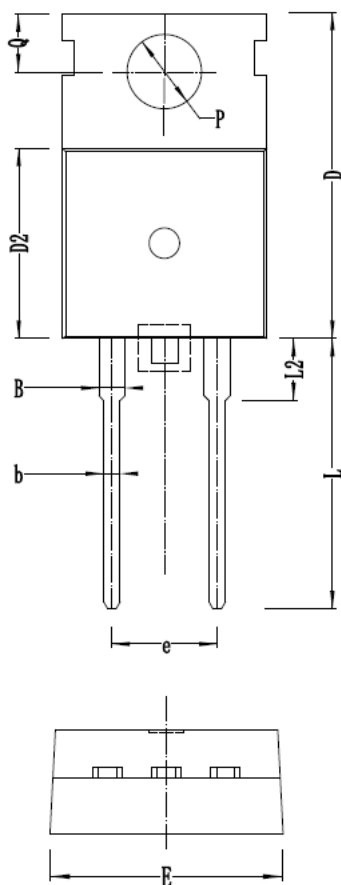




外形尺寸 PACKAGE MECHANICAL DATA

TO-220C-2L

单位 Unit : mm



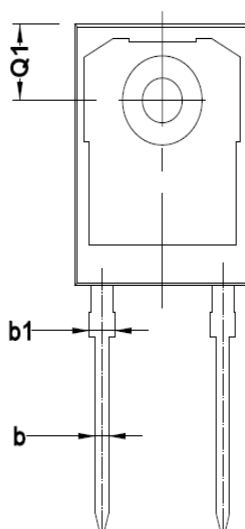
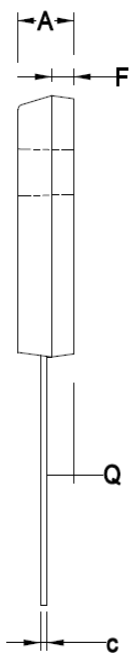
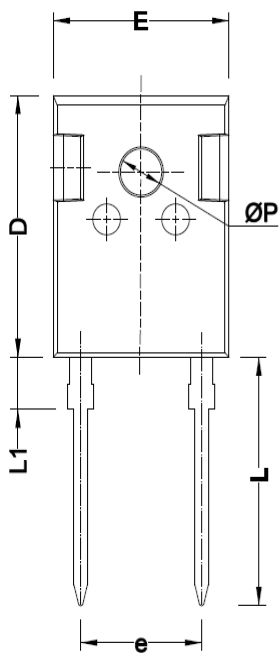
符号 symbol	单位: mm	
	MIN	MAX
A	4.30	4.70
B	1.22	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	4.78	5.38
F	1.25	1.40
L	12.60	13.60
L2	2.80	3.20
ΦP	3.50	3.80
Q	2.60	3.00
Q1	2.20	2.60

注:

1. 虚线区域代表, 此位置有、无余留, 均为我司受控外形;

TO-247-2L

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	4.80	5.20
b	1.10	1.30
b1	1.95	2.25
c	0.50	0.70
D	20.80	21.20
E	15.60	16.00
F	1.85	2.15
e	10.73	11.03
L	19.62	20.22
L1	3.93	4.33
ΦP	3.40	3.80
Q	2.26	2.56
Q1	6.00	6.40





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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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