



30F40C

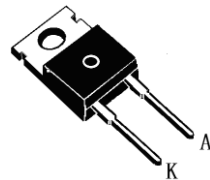
主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	30A
V_{RRM}	400 V
$V_F(typ)$	1.2V
$T_{rr} (typ)$	38ns

封装 Package

K  A

TO-220C2L



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		
30F40C-CL-B	30F40C-CL-BR	30F40C	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}	400	V
平均正向整流电流 $T_c=100^{\circ}\text{C}$ Average Forward Rectified Current	$I_{F(AV)}$	30	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$	I_{FSM}	400	A
结温 Junction Temperature	T_j	$-55\sim+150$	$^{\circ}\text{C}$
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 =50μA		400	-	-	V
I _R	T _j =25℃	V _R =V _{RRM}	-	-	50	μA
	T _j =125℃		-	-	200	μA
V _F	T _j =25℃	I _F =30A	-	1.2	1.5	V
	T _j =125℃		-	-	1.3	V
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-100A/μs		-	38	45	ns
T _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A		-	40	60	ns

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

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	$R_{th(j-c)}$	1.0	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

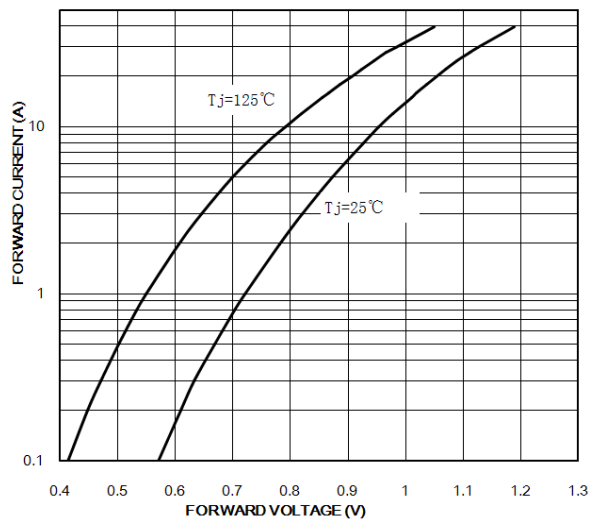
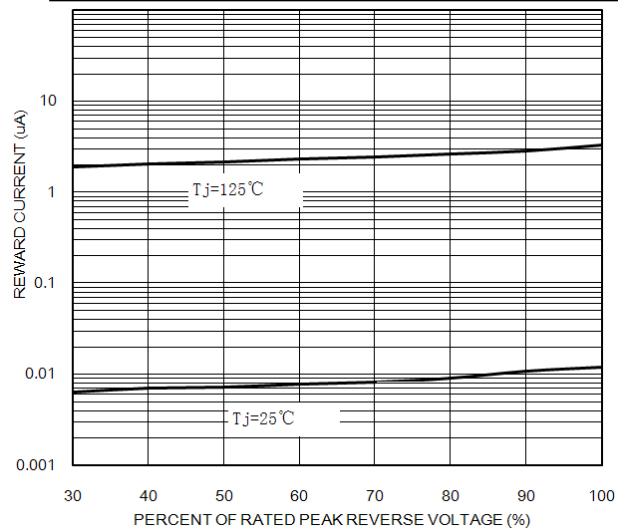


Fig.2 TYPICAL REVERSE CHARACTERISTICS

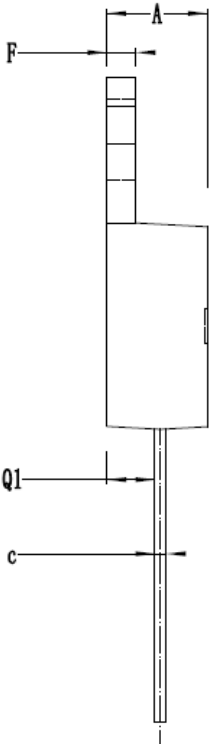
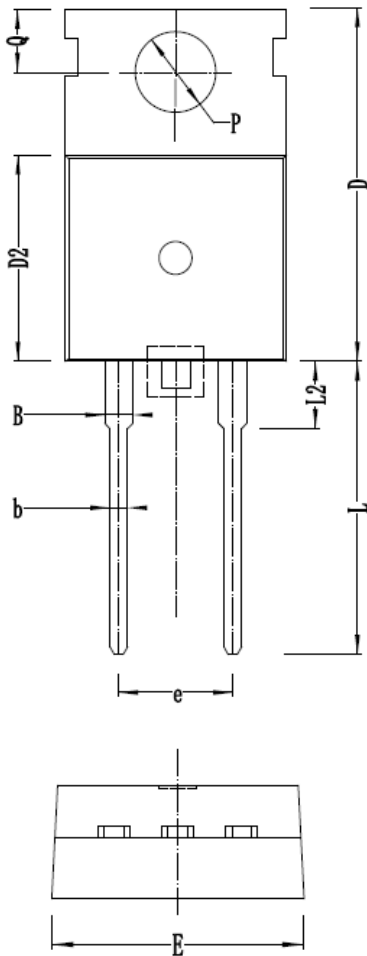




外形尺寸 PACKAGE MECHANICAL DATA

TO-220C2L

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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