



SJH20300

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	20 (2×10) A
V_{RRM}	300 V
T_j	150 °C
$V_F(max)$	0.85V (@ $T_j=125^{\circ}C$)

用途

- 高频开关电源
- 低压续流电路和保护电路

APPLICATIONS

- High frequency switch power supply
- Free wheeling diodes, polarity protection applications

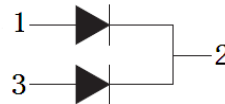
产品特性

- 共阴结构
- 低功耗，高效率
- 良好的高温特性
- 高可靠性
- 环保 (RoHS) 产品

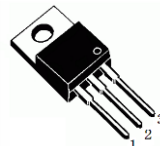
FEATURES

- Common cathode structure
- Low power loss, high efficiency
- High Operating Junction Temperature
- High reliability
- RoHS product

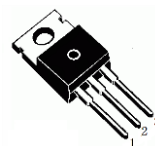
封装 Package



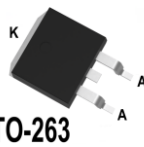
T0-220



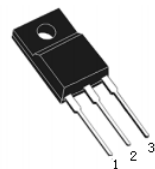
T0-220C



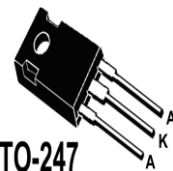
T0-263



T0-220MF-K1



T0-247



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		
N/A	SJH20300-CA-BR	N/A	N/A	SJH20300	T0-220
N/A	SJH20300-C-BR	N/A	N/A	SJH20300	T0-220C
N/A	SJH20300-F1-BR	N/A	N/A	SJH20300	T0-220MF-K1
N/A	SJH20300-S-BR	N/A	SJH20300-S-AR	SJH20300	T0-263
N/A	SJH20300-GE-BR	N/A	N/A	SJH20300	T0-247

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}	300	V
最大直流阻断电压 Maximum DC blocking voltage			V_{DC}	300	V
正向平均整流电流 Average forward current	$T_c=122^{\circ}\text{C}$ (T0-220/220C/263)	整个器件 per device	$I_{F(AV)}$	20	A
	$T_c=100^{\circ}\text{C}$ (T0-220MF-1)	单 侧 per diode		10	
正向峰值浪涌电流 Surge non repetitive forward current (额定负载 8.3ms 半正弦波—按 JEDEC 方法) 8.3 ms single half-sine-wave (JEDEC Method)			I_{FSM}	180	A
最高结温 Maximum junction temperature			T_j	150	$^{\circ}\text{C}$
储存温度 Storage temperature range			T_{STG}	$-40^{\circ}\sim+150^{\circ}$	$^{\circ}\text{C}$

电特性 ELECTRICAL CHARACTERISTICS

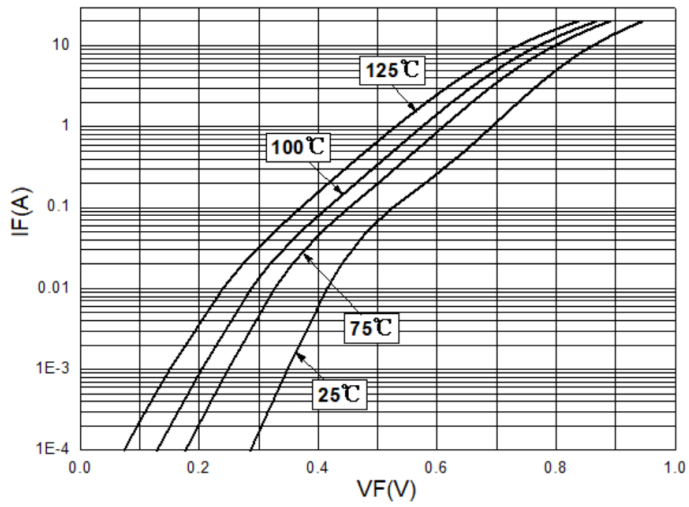
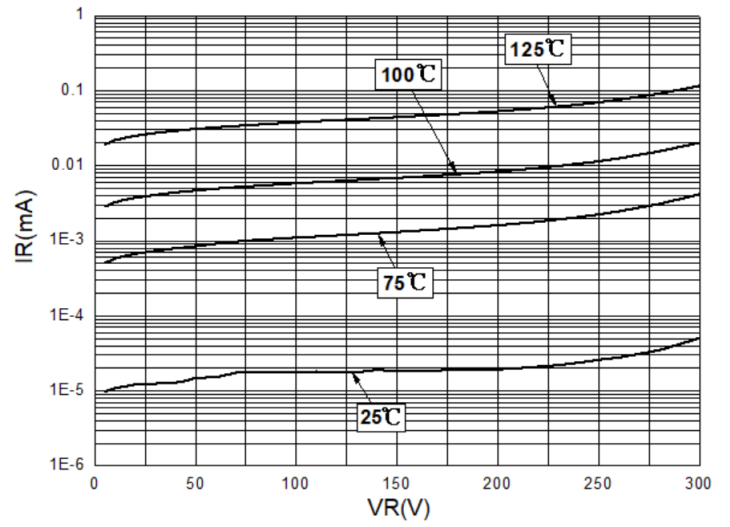
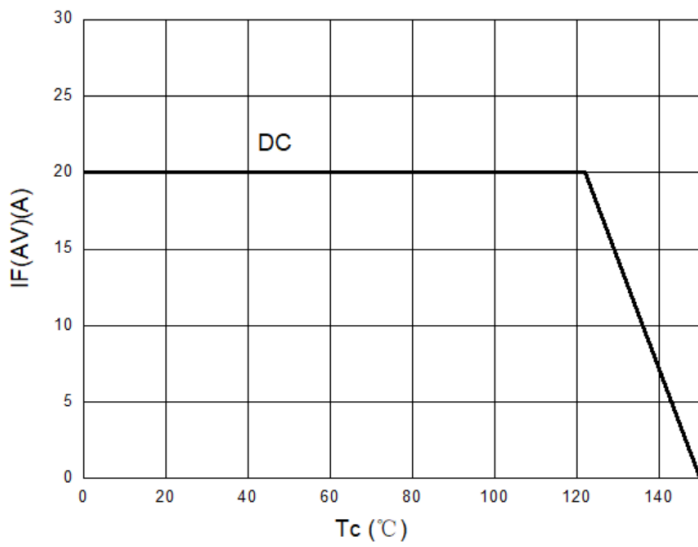
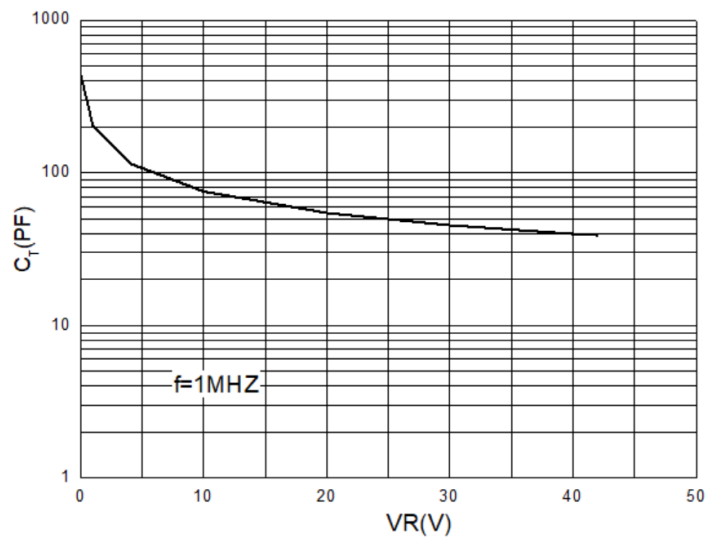
项 目 Parameter	测试条件 Tests conditions		最小值 Value (min)	典型值 Value (typ)	最大值 Value (max)	单位 Unit
I_R	$T_j = 25^{\circ}\text{C}$	$V_R = V_{RRM}$			50	μA
	$T_j = 125^{\circ}\text{C}$				10	mA
V_F	$T_j = 25^{\circ}\text{C}$	$I_F = 10\text{A}$		0.86	0.98	V
	$T_j = 125^{\circ}\text{C}$			0.735	0.85	V

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	T0-220	$R_{th(j-c)}$		1.9	$^{\circ}\text{C}/\text{W}$
	T0-220C			1.9	
	T0-247			2.0	
	263			2.2	
	T0-220MF-K1			3.5	



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

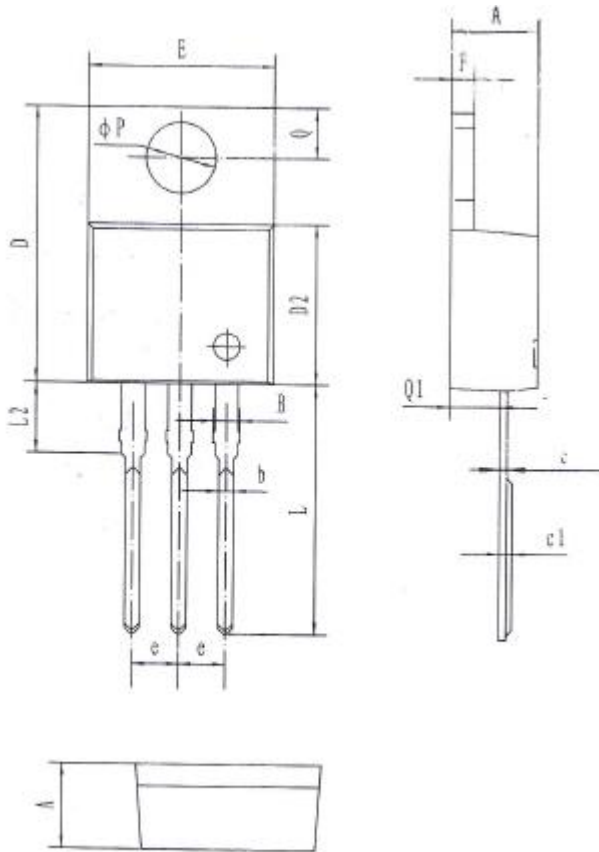
 I_F vs V_F  I_R vs V_R  $I_F(AV)$ vs T_c  C_T vs V_R 



外形尺寸PACKAGE MECHANICAL DATA

T0-220

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.40	4.80
B	1.10	1.40
b	0.70	0.95
c	0.28	0.48
c1	0.32	0.52
D	14.45	16.00
D2	8.20	9.20
E	9.60	10.40
e	2.39	2.69
F	1.20	1.35
L	13.05	14.05
L2	3.70	3.90
Q	2.40	3.00
Q1	2.20	2.90
P	3.50	4.00

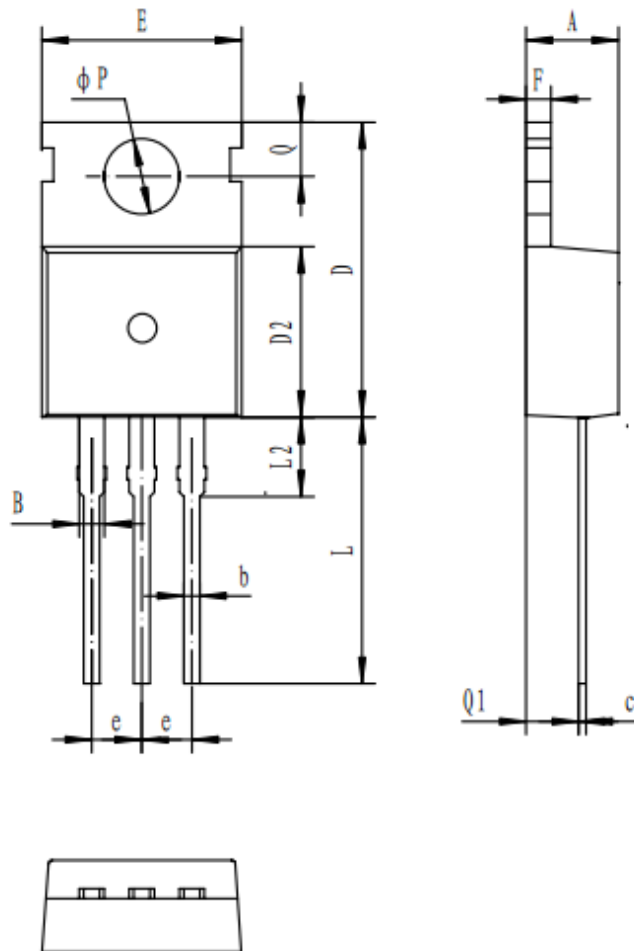


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外形尺寸 PACKAGE MECHANICAL DATA

T0-220C

单位 Unit : mm

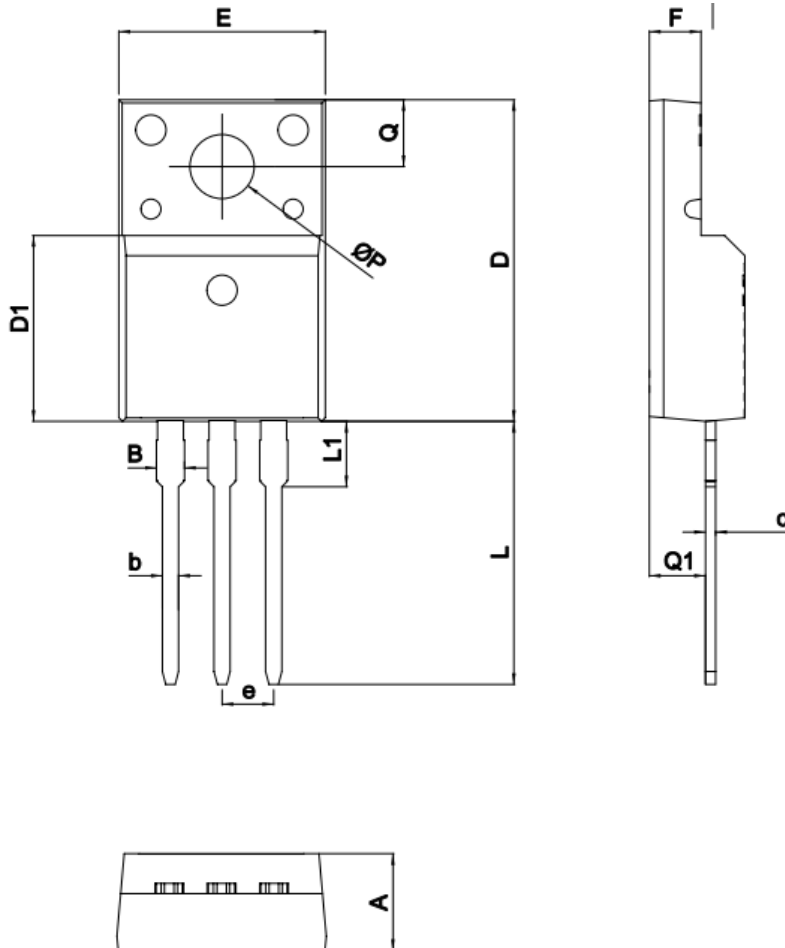


符号 symbol	MIN	MAX
A	4.30	4.70
B	1.10	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	2.39	2.69
F	1.25	1.40
L	12.60	13.60
L2	2.80	3.20
Q	2.60	3.00
Q1	2.20	2.60
P	3.50	3.80



外形尺寸 PACKAGE MECHANICAL DATA
T0-220MF-K1

单位 Unit : mm



SYMBOL	mm	
	MIN	MAX
A	4.5	4.9
B	1.22	1.47
b	0.7	0.9
c	0.45	0.60
D	15.6	16.1
D1	9.0	9.3
e	2.54TYPE	
E	9.9	10.4
F	2.3	2.8
L	12.6	13.3
L1	3.1	3.4
Q	3.2	3.4
Q1	2.6	2.9
ΦP	3.0	3.5

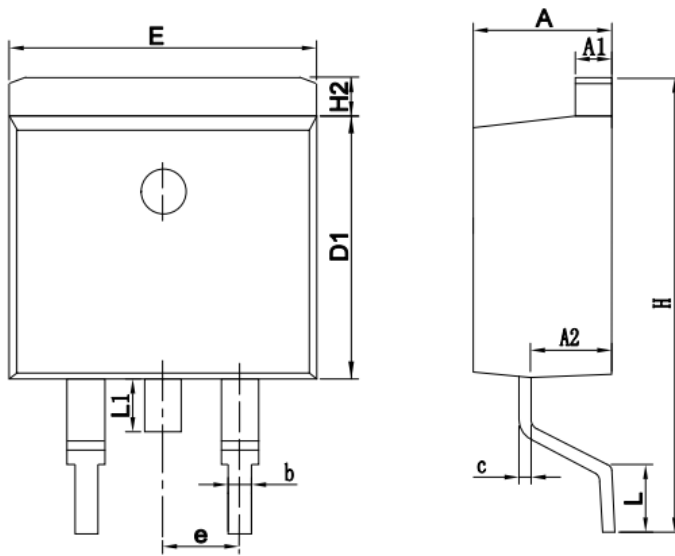


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外形尺寸 PACKAGE MECHANICAL DATA

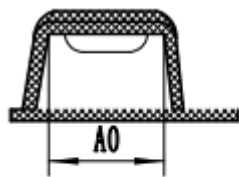
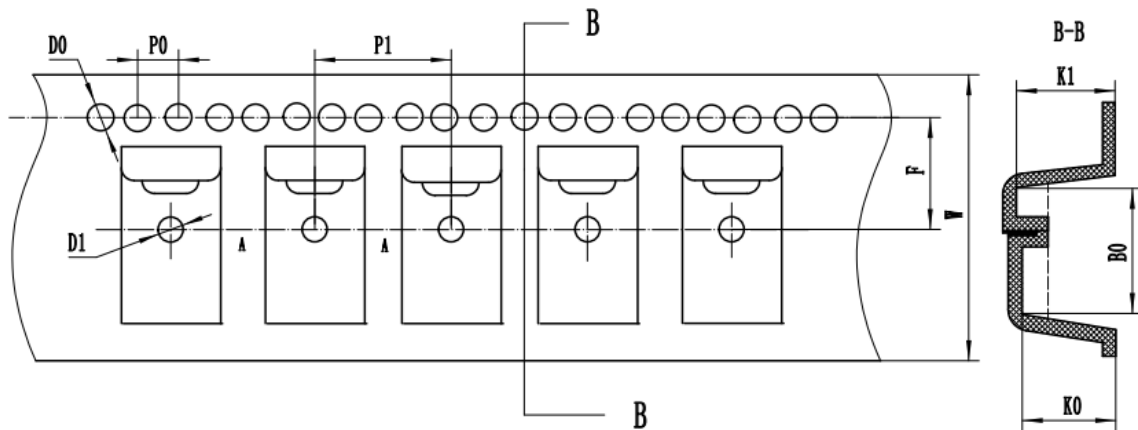
T0-263

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	4.30	4.80
A1	1.12	1.42
A2	2.54	2.84
b	0.67	1.00
c	0.29	0.52
D1	8.40	9.00
E	9.80	10.46
e	2.54BSC	
H	14.00	16.00
H2	1.12	1.45
L	1.50	3.10
L1	1.45	1.70

编带 REEL



A-A

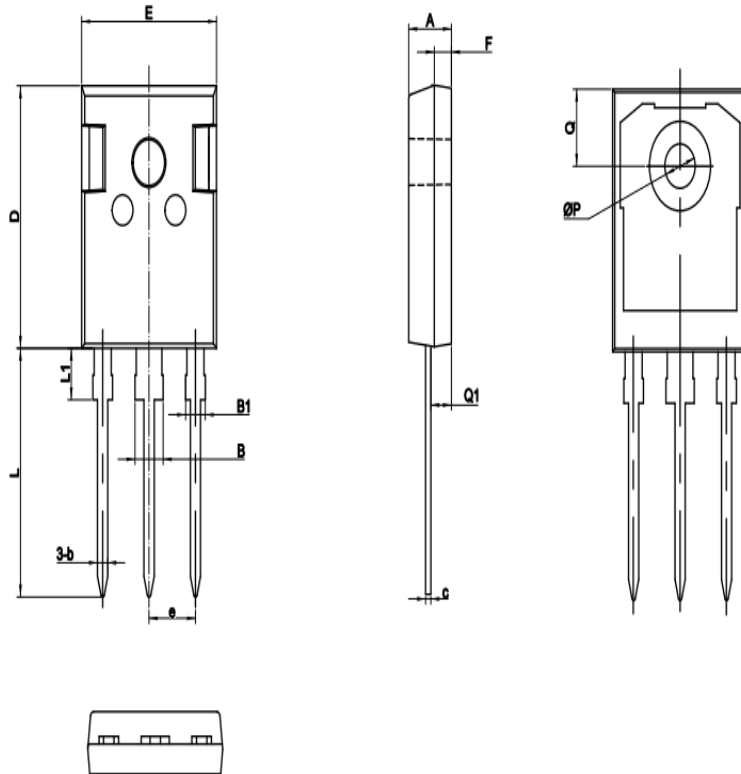
Symbol	标准范围 (mm)
A0	10.60±0.20
B0	16.10±0.20
D0	1.55±0.10
D1	1.50±0.15
F	11.50±0.20
K0	4.85±0.20
K1	5.26±0.20
P0	4.00±0.20
P1	16.00±0.20
W	24.00±0.40





外形尺寸 PACKAGE MECHANICAL DATA
T0-247

单位 Unit : mm



符号 symbol	mm	
	MIN	MAX
A	4.90	5.10
B	2.95	3.35
B1	1.95	2.35
b	1.15	1.35
c	0.50	0.70
D	20.90	21.10
E	15.70	15.90
e	5.34	5.54
F	1.90	2.10
L	19.40	20.40
L1	4.03	4.23
Q	6.00	6.40
Q1	2.30	2.50
P	3.50	3.70

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联系方式

吉林华微电子股份有限公司

公司地址：吉林省吉林市深圳街 99 号

邮编：132013

总机：86-432-64678411

传真：86-432-64665812

网址：www.hwdz.com.cn

CONTACT

JILIN SINO-MICROELECTRONICS CO., LTD.

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64678411

Fax: 86-432-64665812

Web Site: www.hwdz.com.cn

