



20F20SAB3

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	10×2 A
V_{RRM}	200 V
$T_j(max)$	150°C
$V_F(typ)$	0.9V
$t_{rr}(typ)$	26ns

用途

- 逆变焊机
- 开关电源
- UPS
- 高频开关器件并联二极管

APPLICATIONS

- Inversion Welder
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

产品特性

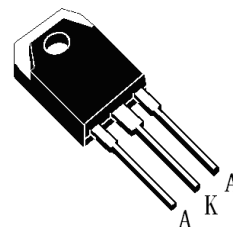
- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High reliability
- RoHS product

封装 Package

TO-3PB



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		
20F20SAB3-GD-B	20F20SAB3-GD-BR	20F20SAB3	TO-3PB





绝对最大额定值 ABSOLUTE RATINGS (Tc=25°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}	200	V
正向平均整流电流 Average forward current T _c =100°C	I _{F(AV)}	20	A
整个器件 per device 单 侧 per diode		10	
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=10ms	I _{FSM}	100	A
结温 Junction Temperature	T _j	-40~+150	°C
储存温度 Storage temperature range	T _{STG}	-40~+150	°C

电特性 ELECTRICAL CHARACTERISTICS (Tc=25°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 =50μA	200			V
I _R	T _j =25°C			10	μA
	T _j =125°C			500	μA
V _F	T _j =25°C		0.9	1.1	V
	T _j =125°C			0.9	V
trr	I _F =1A, V _R =30V, di _F /dt=-200A/μs		26	35	ns

热特性 THERMAL CHARACTERISTICS

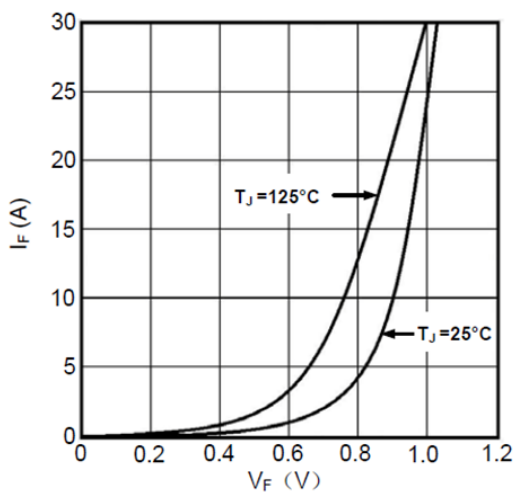
项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	TO-3PB R _{th(j-c)}	1.5	°C/W



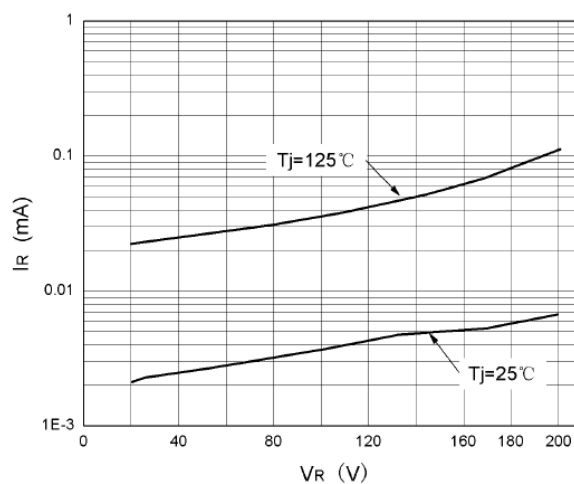


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

I_F vs V_F



I_R vs V_R

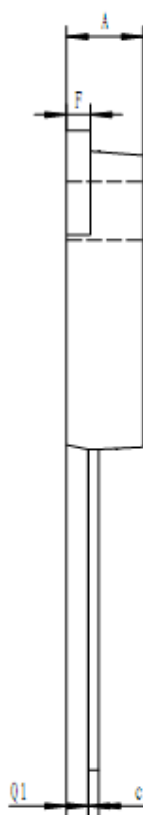
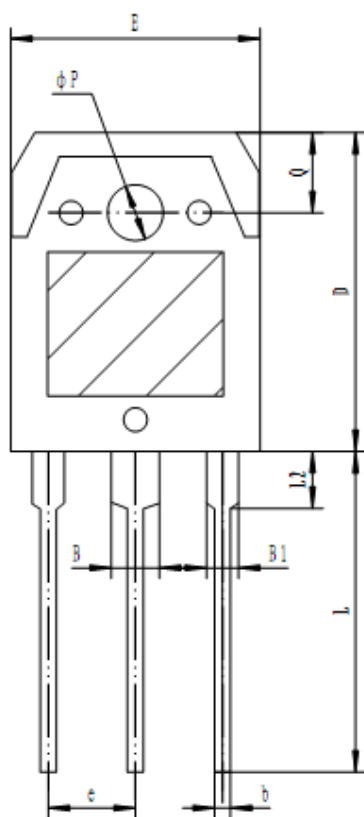




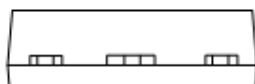
外形尺寸 PACKAGE MECHANICAL DATA

TO-3PB

单位 Unit : mm



符号 Symbol	Min	Max
A	4.6	5.0
B	2.9	3.2
B1	1.9	2.2
b	0.9	1.10
c	0.5	0.70
D	19.4	20.4
E	15.4	15.8
e	5.45 (typ)	
F	1.4	1.60
L	19.5	20.5
L2	3.3	3.7
ΦP	3.1	3.5
Q	5.8	6.2
Q1	1.3	1.5





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。
4. 本说明书如有版本变更不另外告知

NOTES

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co, Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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

市场营销部

地址：吉林省吉林市深圳街 99 号

邮编：132013

电话：86-432-64675588

64675688

64678411-3098/3099

传真：86-432-64671533

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

MARKET DEPARTMENT

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

Post Code: 132013

Tel: 86-432-64675588

64675688

64678411-3098/3099

Fax: 86-432-64671533

