



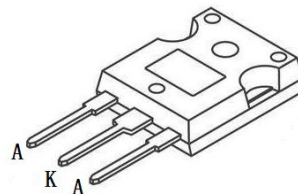
# 20F20WS3

## 主要参数 MAIN CHARACTERISTICS

IF(AV)	10×2 A
VRRM	200 V
Tj(max)	150°C
VF(typ)	0.9V
trr (typ)	26ns

## 封装 Package

### TO-247S



## 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

- 超快恢复时间
- 软恢复特性
- 低正向压降
- 低漏电流

## PRODUCT FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Forward Voltage
- Low Leakage Current

## 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		
20F20WS3-GG-B	20F20WS3-GG-BR	20F20WS3	TO-247S





**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 Tc=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	$I_{FSM}$	80	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
$V_{RRM}$	$I_R = 50\mu A$	200			V
$I_R$	$T_j = 25^\circ C$			10	$\mu A$
	$T_j = 125^\circ C$			$V_R = V_{RRM}$	500
$V_F$	$T_j = 25^\circ C$		0.9	1.1	V
	$T_j = 125^\circ C$			$I_F = 10A$	0.9
trr	$I_F = 1A, V_R = 30V, di_F/dt = -200A/\mu s$		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	$R_{th(j-c)}$	1.8	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

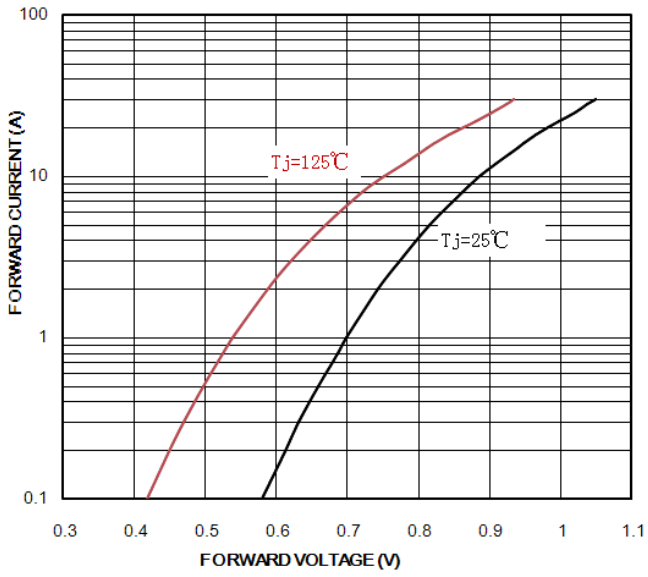
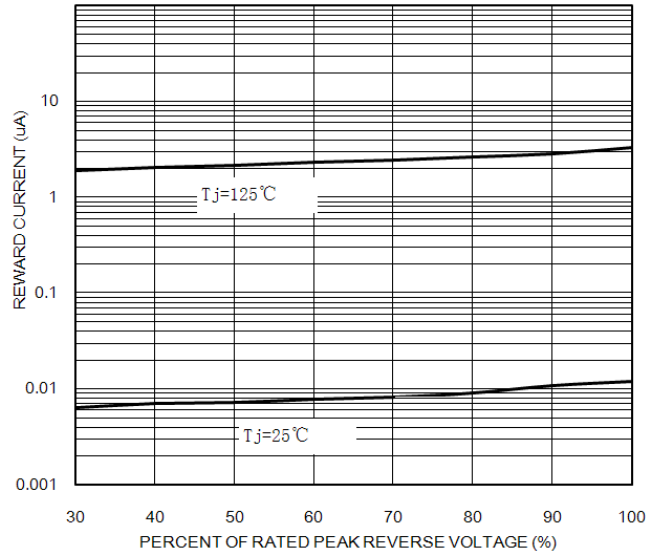


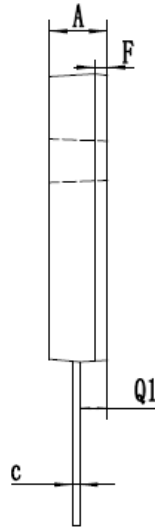
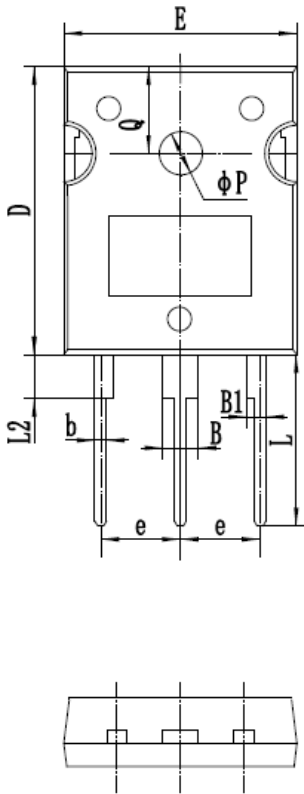
Fig.2 TYPICAL REVERSE CHARACTERISTICS





TO-247S

单位 Unit: mm



符号 SYMBOL	单位: mm	
	MIN	MAX
A	4.8	5.2
B	2.9	3.3
B1	1.9	2.3
b	1.05	1.35
c	0.35	0.65
D	18	22
E	14	17
e	5.44(TYP)	
F	1.1	1.4
L	13	16
L2	2.5	5.5
Q	5.3	5.7
Q1	2.3	2.7
$\phi P$	3.9	4.3





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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

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