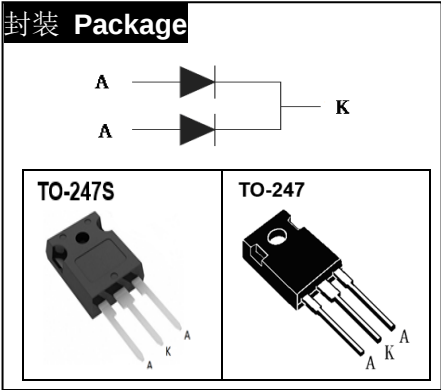




80F40WS3

主要参数 MAIN CHARACTERISTICS

IF(AV)	40×2 A
VRRM	400 V
VF(typ)	1.25V
trr (typ)	40ns



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		
80F40WS3-GG-B	80F40WS3-GG-BR	80F40WS3	TO-247S
80F40WS3-GE-B	80F40WS3-GE-BR	80F40WS3	TO-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
Maximum Repetitive Reverse Voltage	V_{RRM}	400	V
Average forward current $T_c=110^{\circ}\text{C}$ rectangular $d=0.5$ Per Diode Per Package	$I_{F(AV)}$	40 80	A
Non-Repetitive Surge Forward Current $t=10\text{ms}$	I_{FSM}	400	A
Junction Temperature	T_j	$-40\sim+150$	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	$-40\sim+150$	$^{\circ}\text{C}$

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}			10	μA
	T _j =125℃				150	μA
V _F	T _j =25℃	I _F =40A		1.25	1.85	V
	T _j =125℃				1.5	V
trr	I _F =0.5A, I _R =1A, I _{RR} =0.25A			40	60	ns
trr	I _F =40A, V _R =270V, di _F /dt=-200A/μs T _C =25℃		-	50	-	ns
I _{RRM}			-	4.6	-	A
trr	I _F =40A, V _R =270V, di _F /dt=-200A/μs T _C =125℃		-	75	-	ns
I _{RRM}			-	8.9	-	A

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
Thermal resistance from junction to case	$R_{th(j-c)}$	0.8	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

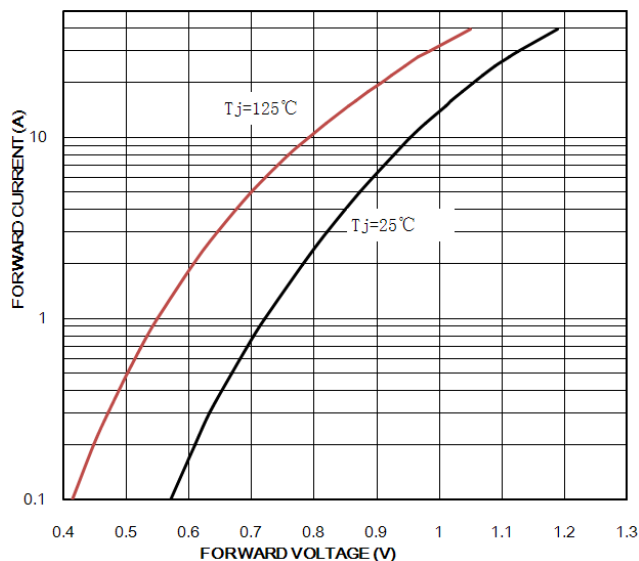
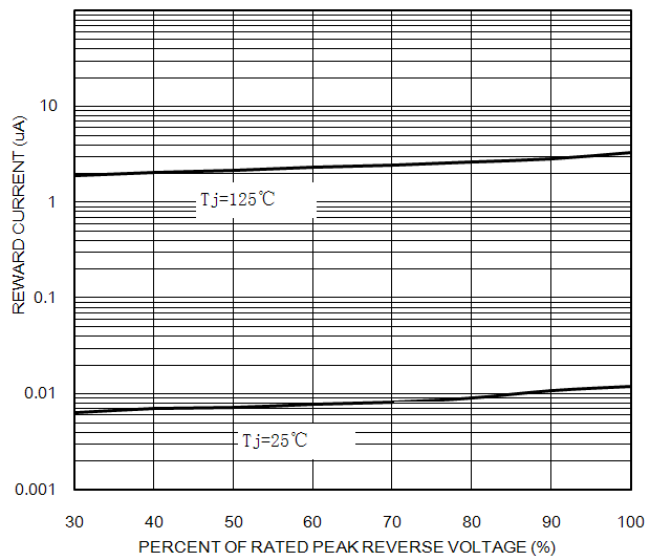
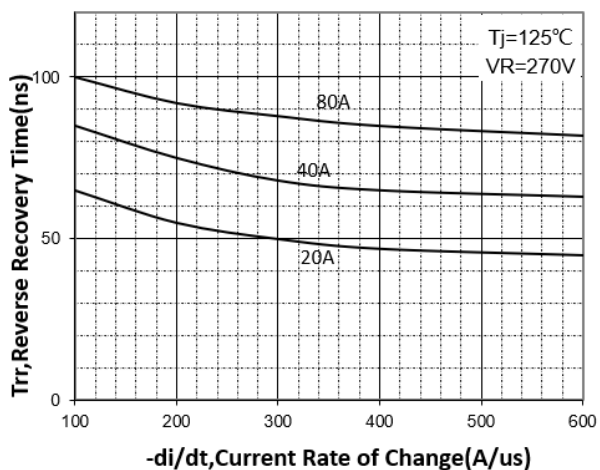
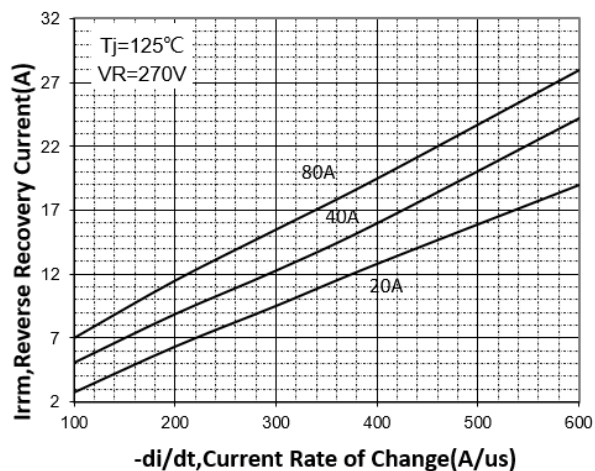


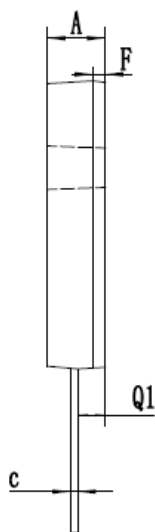
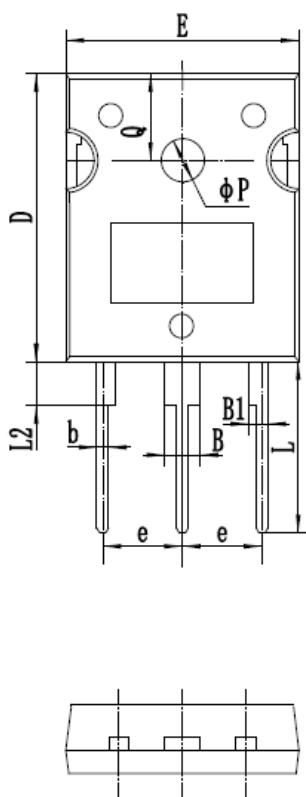
Fig.2 TYPICAL REVERSE CHARACTERISTICS

Fig.3 Reverse recovery time versus di/dt Fig.4 Peak reverse recovery current versus di/dt 



TO-247S

单位 Unit: mm



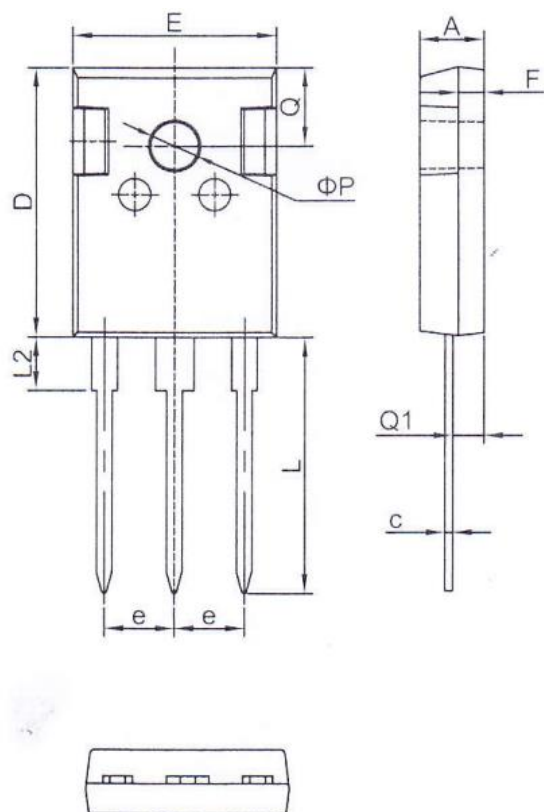
符号 SYMBOL	单位: mm	
	MIN	MAX
A	4.8	5.2
B	2.9	3.3
B1	1.9	2.3
b	1.05	1.35
c	0.35	0.65
D	18	22
E	14	17
e	5.44(TYP)	
F	1.1	1.4
L	13	16
L2	2.5	5.5
Q	5.3	5.7
Q1	2.3	2.7
ΦP	3.9	4.3





TO-247

单位 Unit: mm



符号 symbol	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
L2	4.03	4.23
Q	6.00	6.40
Q1	2.30	2.50
P	3.50	3.70





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2. 购买时请认清公司商标，如有疑问请与公司本部联系。
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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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.

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