



60F30DAB3/60F30DWS3

主要参数 MAIN CHARACTERISTICS

IF(AV)	30×2 A
VRRM	300 V
Tj(max)	150°C
VF(typ)	1.05V
trr (typ)	32ns

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

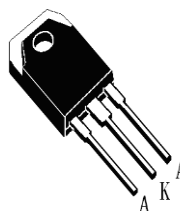
FEATURES

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

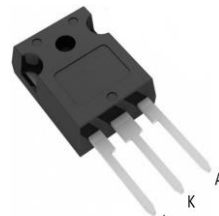
封装 Package



TO-3PB



TO-247S



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		
60F30DAB3-GD-B	60F30DAB3-GD-BR	60F30DAB3	TO-3PB
60F30DWS3-GG-B	60F30DWS3-GG-BR	60F30DWS3	TO-247S



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
最大反向工作峰值电压 Working Peak Reverse Voltage	V_{RWM}	300	V
平均正向整流电流 $T_c=100^\circ\text{C}$ Average Forward Rectified Current	Per Diode	60	A
	Per Package	30	
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10\text{ms}$	I_{FSM}	300	A
雪崩能量 Avalanche Energy(per diode) $L=40\text{mH}$	E_{AVL}	20	mJ
结温 Junction Temperature	T_j	-50~+150	$^\circ\text{C}$
储存温度 Storage temperature range	T_{STG}	-50~+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_{RRM}	$I_R=50\mu\text{A}$		300			V
I_R	$T_j=25^\circ\text{C}$	$V_R=V_{RRM}$			10	μA
	$T_j=125^\circ\text{C}$				500	μA
V_F	$T_j=25^\circ\text{C}$	$I_F=30\text{A}$		1.05	1.3	V
	$T_j=125^\circ\text{C}$				1.1	V
T_{rr}	$I_F=1\text{A}, V_R=30\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$			35	45	ns
T_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$			32	45	ns

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	封 装 Package	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	$R_{th(j-c)}$	TO-3PB	0.7	$^\circ\text{C}/\text{W}$
		TO-247S	1.2	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 FORWARD CHARACTERISTICS

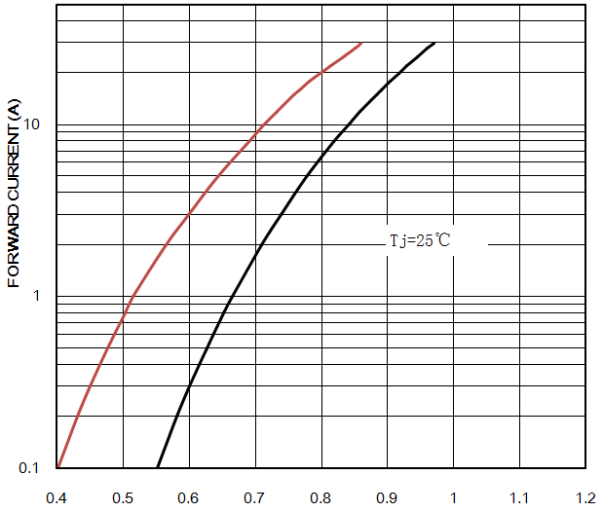


Fig.2 TYPICAL REVERSE CHARACTERISTICS

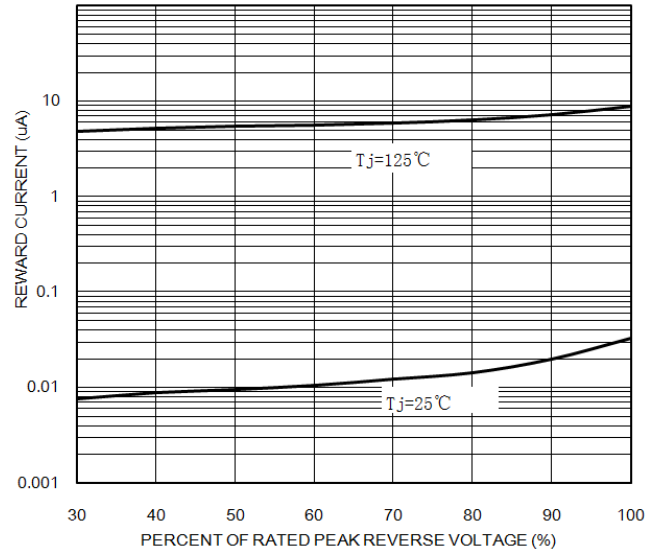
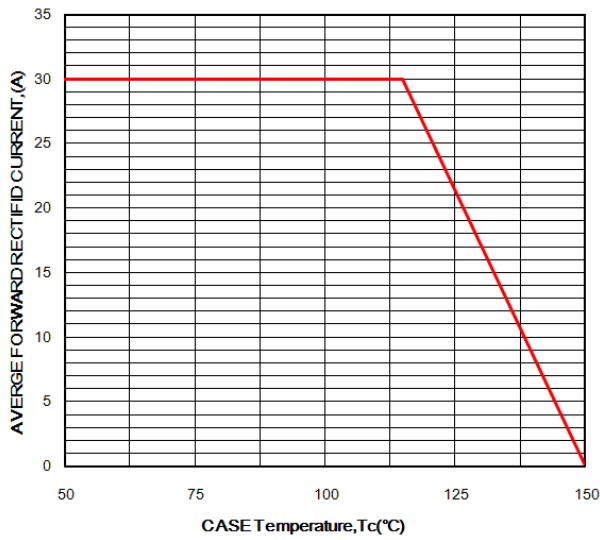


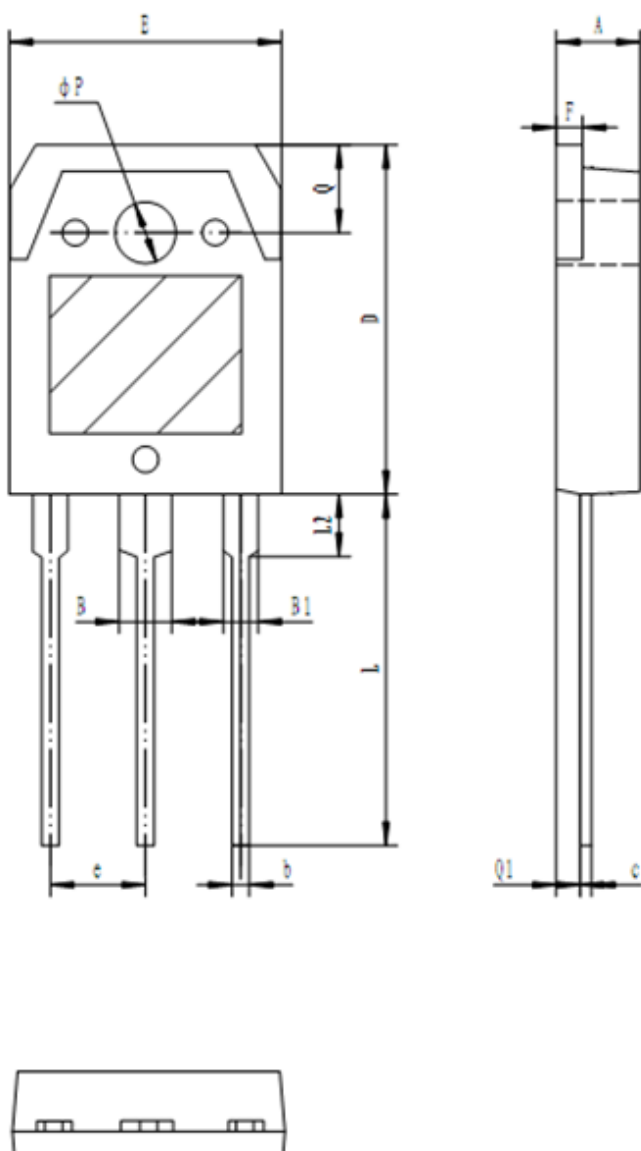
Fig.3 FORWARD CURRENT DERATING CURVE





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

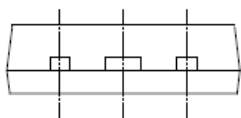
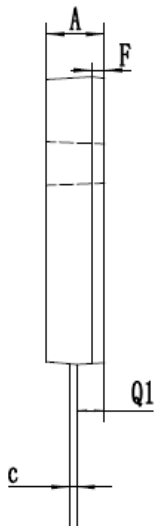
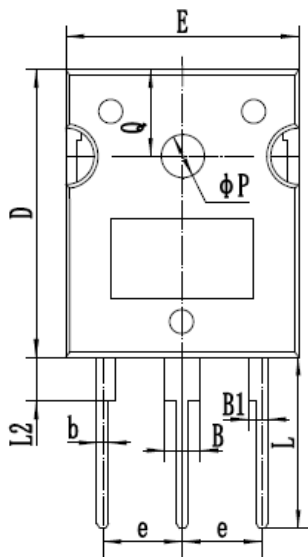




外形尺寸 PACKAGE MECHANICAL DATA

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





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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

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.

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