

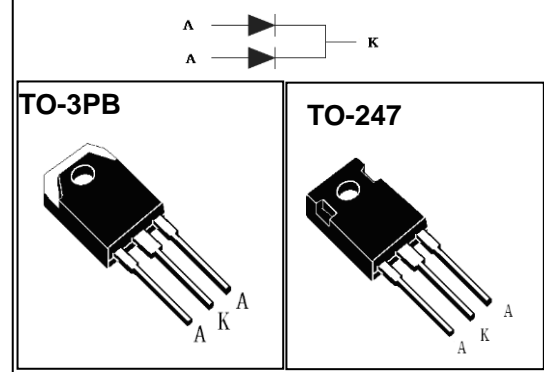


60F30SAB3/60F30SW3

主要参数 MAIN CHARACTERISTICS

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

封装 Package



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

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		
60F30SAB3-GD-B	60F30SAB3-GD-BR	60F30SAB3	TO-3PB
60F30SW3-GE-B	60F30SW3-GE-BR	60F30SW3	TO-247



**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}	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°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=10ms	I _{FSM}	270	A
雪崩能量 Avalanche Energy(per diode) L=40mH	E _{AVL}	20	mJ
结温 Junction Temperature	T _j	-65~+150	°C
储存温度 Storage temperature range	T _{STG}	-65~+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		300			V
I _R	T _j = 25°C	V _R = V _{RRM}			10	μA
	T _j = 125°C				500	μA
V _F	T _j = 25°C	I _F = 30A		1.05	1.3	V
	T _j = 125°C				1.1	V
T _{rr}	I _F = 1A, V _R = 30V, di _F /dt = -200A/μs			30	45	ns
T _{rr}	I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A				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	°C/W
		TO-247	1.2	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 FORWARD CHARACTERISTICS

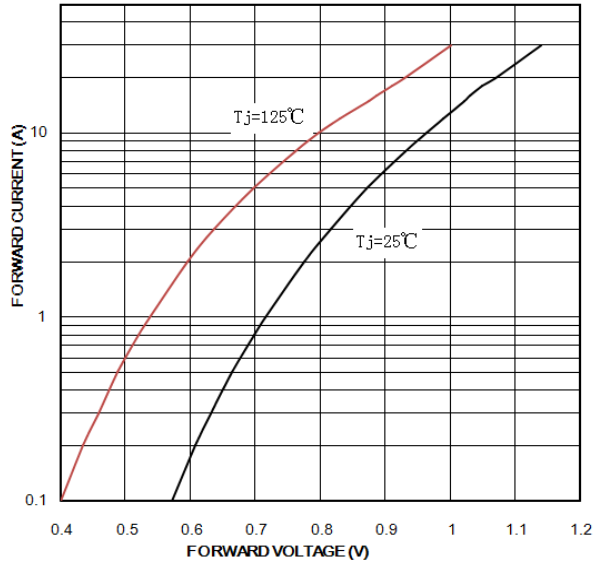


Fig.2 TYPICAL REVERSE CHARACTERISTICS

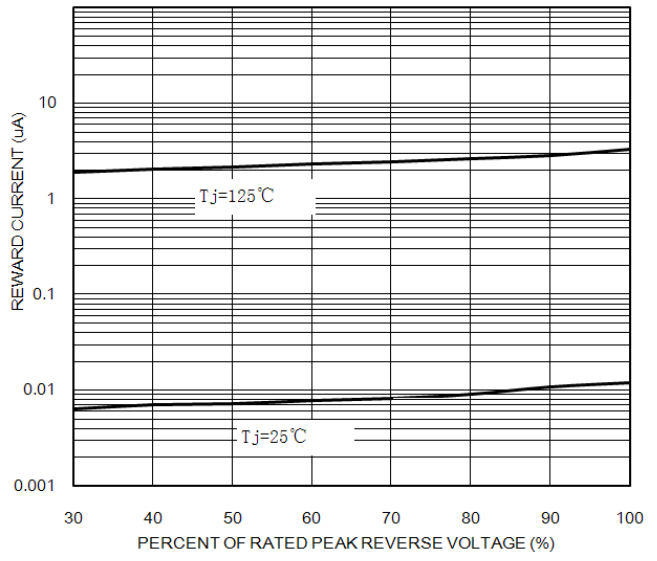
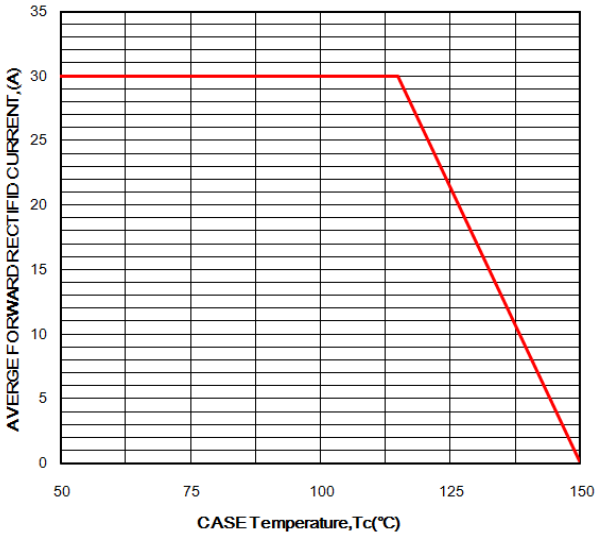


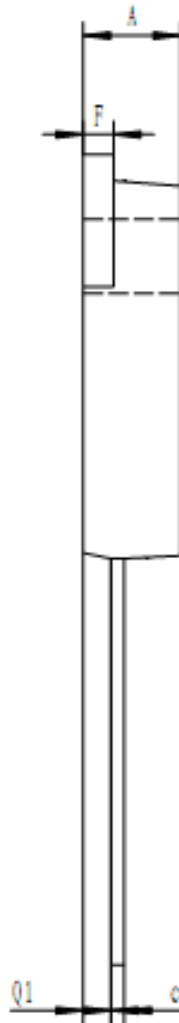
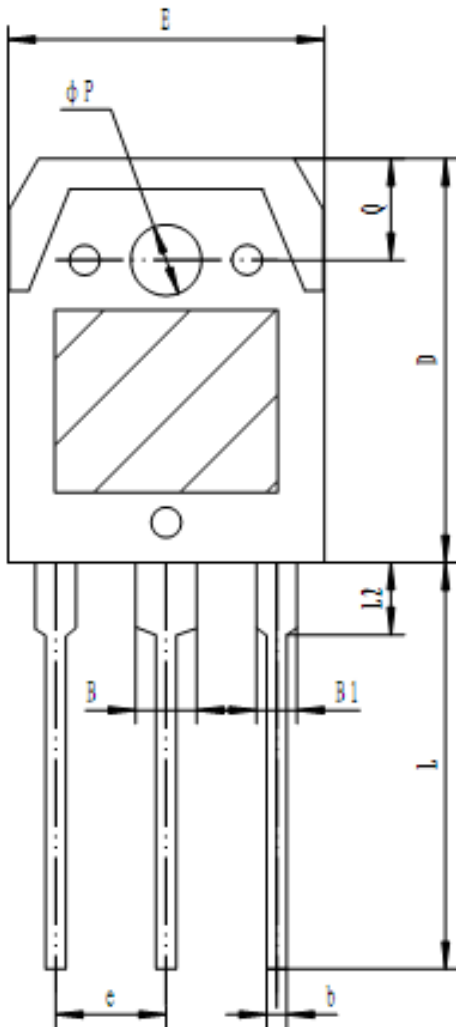
Fig.3 FORWARD CURRENT DERATING CURVE





TO-3PB

单位 Unit : mm



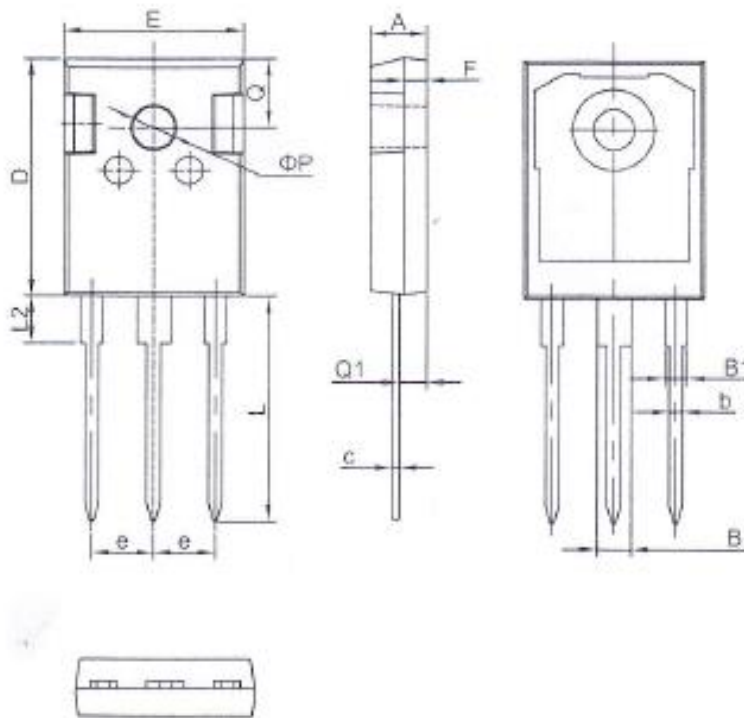
符号 Symbol	Min	Max
A	4.6	5.0
B	2.9	3.2
B1	1.9	2.2
b	0.9	1.10
c	0.5	0.70
D	19.4	20.4
E	15.4	15.8
e	5.45 (typ)	
F	1.4	1.60
L	19.5	20.5
L2	3.3	3.7
ϕP	3.1	3.5
Q	5.8	6.2
Q1	1.3	1.5





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
Q1	2.30	2.50
P	3.50	3.70





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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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