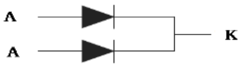
30F60AB3

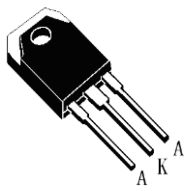
主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	15×2 A
V_{RRM}	600 V
Tj(max)	150℃
V_F(typ)	1.4V
trr（typ）	29ns

封装 Package



TO-3PB



用途 APPLICATIONS

- 吸收回路
- 开关电源
- UPS
- 高频开关器件并联二极管

- Snubber diode
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

产品特性 FEATURES

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

- 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		
30F60AB3-GD-B	30F60AB3-GD-BR	30F60AB3	TO-3PB

绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

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}	600	V
最大反向工作峰值电压 Working Peak Reverse Voltage		V_{RWM}	600	V
平均正向整流电流 T_C=100℃ Average Forward Rectified Curren	Per Package	$I_{F(AV)}$	30	A
	Per Diode		15	
非重复浪涌正向电流 Non-Repetitive Surge Forward Current t=10ms		I_{FSM}	180	A
雪崩能量 Avalanche Energy(per diode) L=40mH		E_{AVL}	20	mJ
结温 Junction Temperature		T_j	-50~+150	℃
储存温度 Storage temperature range		T_{STG}	-50~+150	℃

电特性 ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified) per diode

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		600	680		V
I_R	T_j =25℃	V_R=V_{RRM}			10	μA
	T_j =125℃				250	μA
V_F	T_j =25℃	I_F=15A		1.4	1.8	V
	T_j =125℃			1.2	1.6	V
Cj	V_R = 4.0V, f = 1.0 MHz			100		pF
Trr	I_F=1A, V_R=30V, di$_F$/dt=-200A/μs			29	45	ns
Trr	I_F=0.5A,I_R=1.0A,I_{RR}=0.25A			27	40	ns
Trr	I_F=15A, V_R=400V, di$_F$/dt=200A/μs T_j =125℃			165		ns
I_{RM}				6.2		A

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	$R_{th(j-c)}$	0.8	℃/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

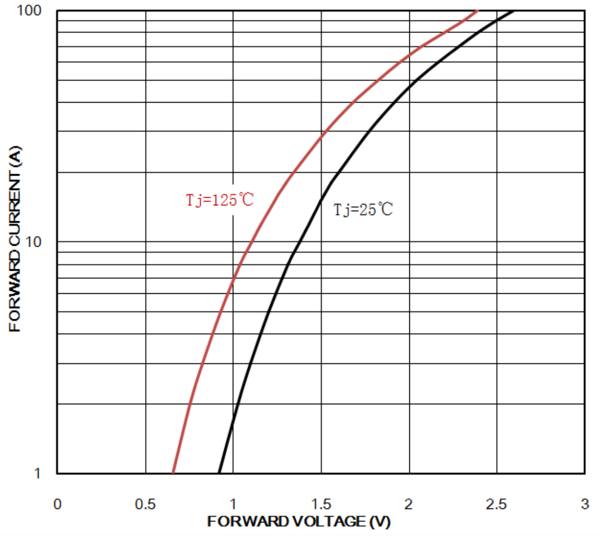


Fig.2 TYPICAL REVERSE CHARACTERISTICS

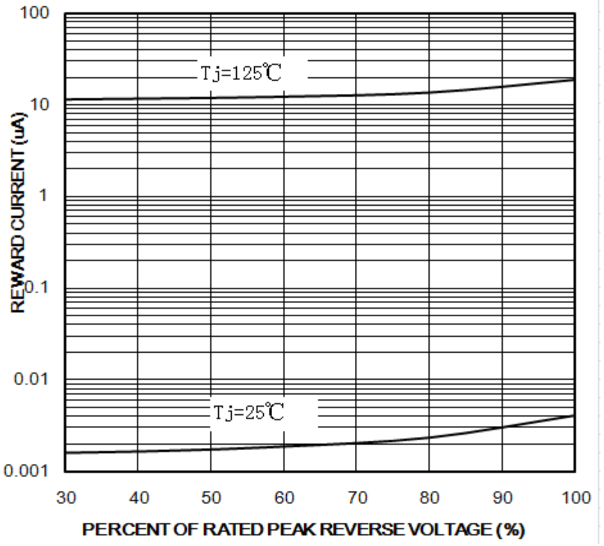


Fig.3 FORW ARD CURRENT DERATING CURVE

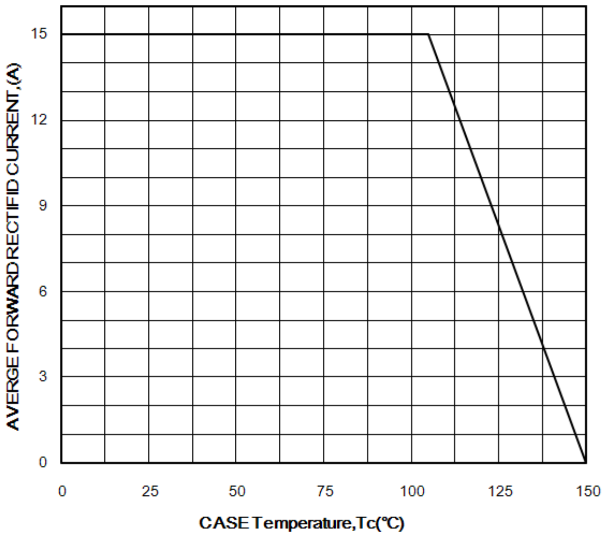


Fig.4 TYPCAL JUNCTION CAPACITANCE

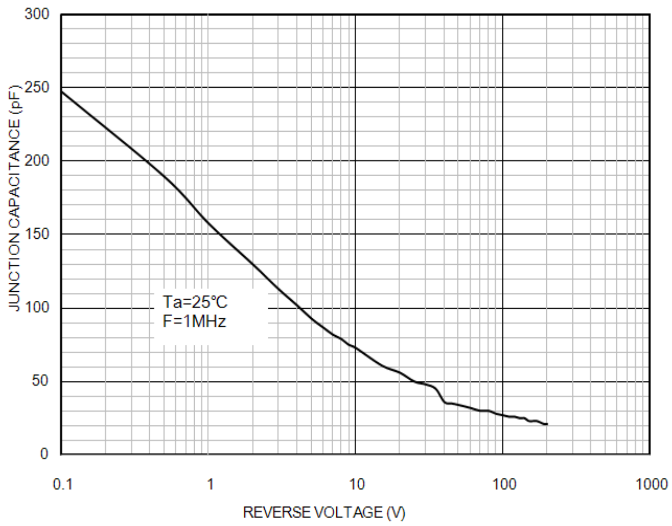


Fig.5 Reverse recovery time versus dIF/dt

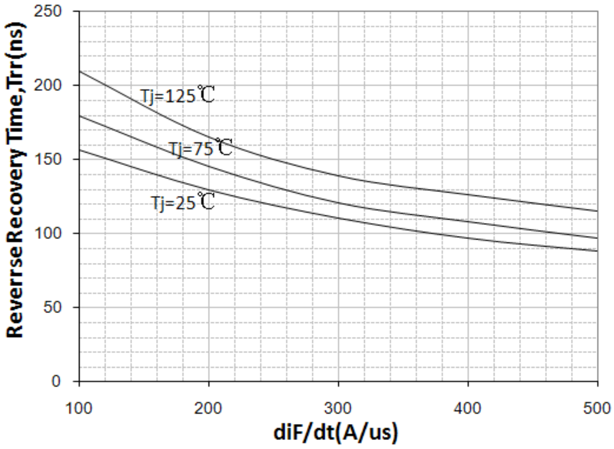
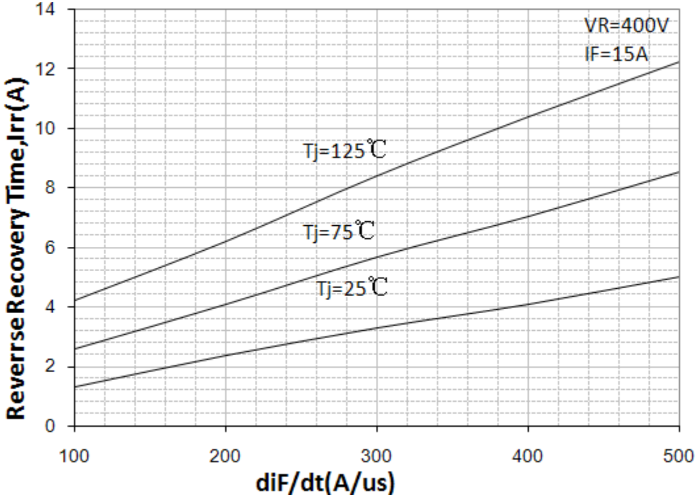
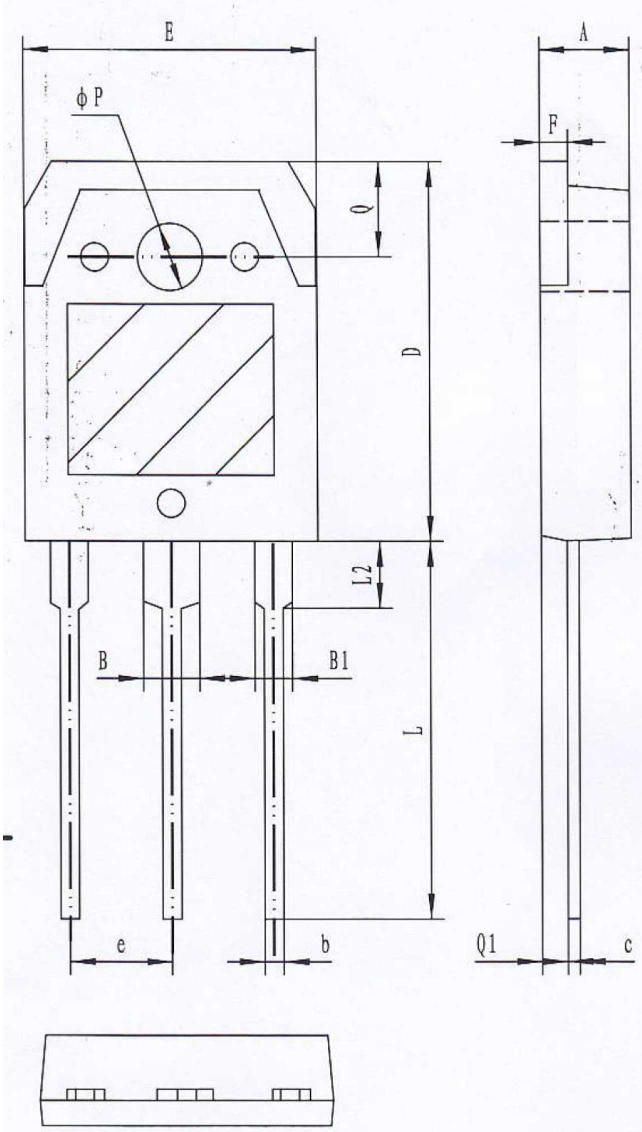


Fig.6 Peak reverse recovery current versus dIF/dt



TO-3PB 单位 Unit ： mm



单位：mm;

符号 symbol	MIN	MAX
A	4.60	5.00
B	2.90	3.20
B1	1.90	2.20
b	0.90	1.10
c	0.50	0.70
D	19.40	20.40
E	15.40	15.80
e	5.45(TYP)	
F	1.40	1.60
L	19.50	20.50
L2	3.30	3.70
Q	4.90	5.10
Q1	1.30	1.50
P	3.10	3.50

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