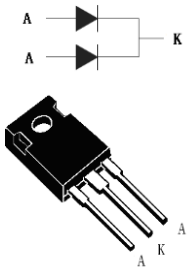
30F60W3

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	15×2 A
V_{RRM}	600 V
$V_{F(typ)}$	1.4V
trr（typ）	29ns

封装 Package



TO-247

用途 APPLICATIONS

- 吸收回路 Snubber diode
- 开关电源 Switch power supply
- UPS UPS
- 高频开关器件并联二极管 Antiparalle Diode for high frequency switching devices

产品特性 PRODUCT FEATURES

- 低功率，高效率 Low power loss,high efficiency
- 高可靠性 High reliability
- 环保（RoHS）产品 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		
30F60W3-GE-B	30F60W3-GE-BR	30F60W3	TO-247

绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

项 目 Parameter		符 号 Symbol	数 值 Value	单 位 Unit
Maximum Repetitive Reverse Voltage		V_{RRM}	600	V
Working Peak Reverse Voltage		V_{RWM}	600	V
Average forward Rectified current T_C=110℃	Per Package	$I_{F(AV)}$	30	A
	Per Diode		15	
Non-Repetitive Surge Forward Current t=10ms		I_{FSM}	180	A
Avalanche Energy(per diode) L=40mH		E_{AVL}	20	mJ
Junction Temperature		T_j	-50~+150	℃
Storage temperature range		T_{STG}	-50~+150	℃

电特性 ELECTRICAL CHARACTERISTICS (Tc=25℃ 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		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=1.0MHz			100		pF
trr	IF=1A, VR=30V, diF/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		-	165	-	ns
I_{RRM}	T_j =125℃		-	6.2	-	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	℃/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

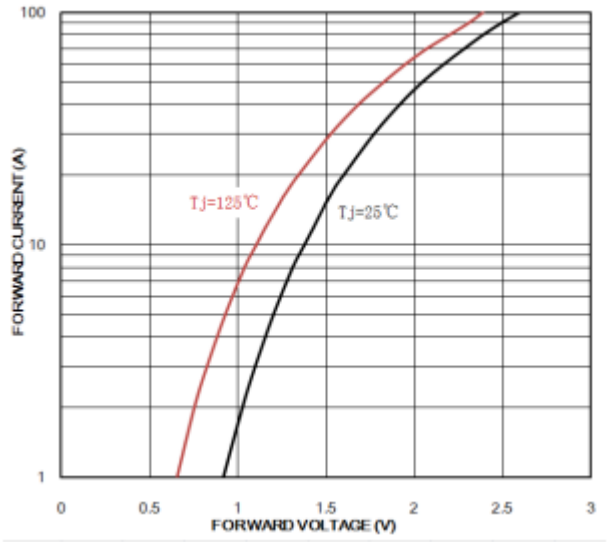


Fig.2 TYPICAL REVERSE CHARACTERISTICS

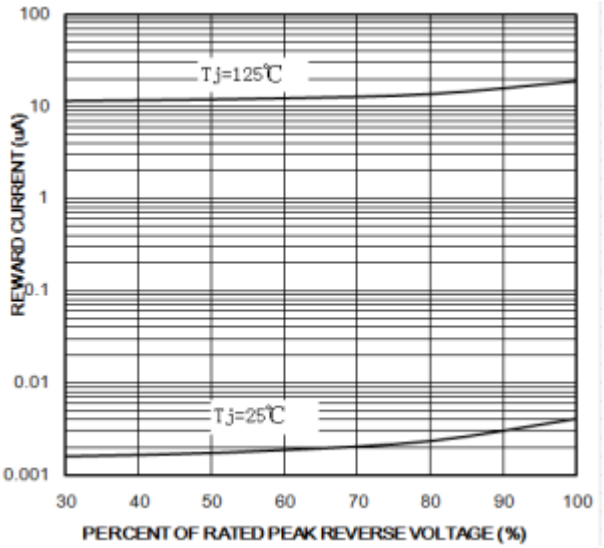


Fig.3 FORW ARD CURRENT DERATING CURVE

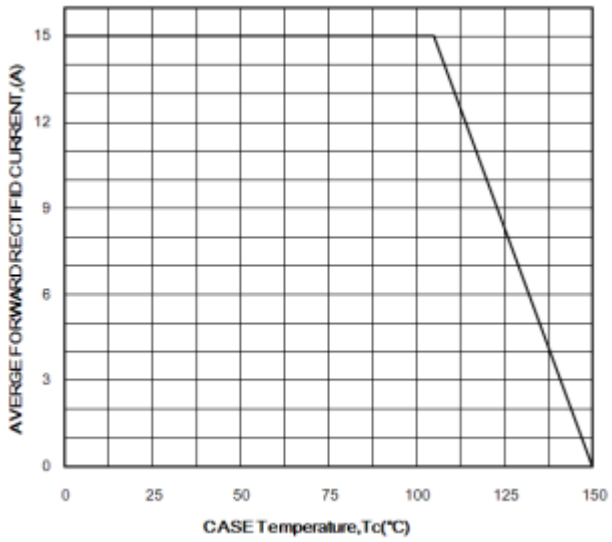


Fig.4 TYPCAL JUNCTION CAPACITANCE

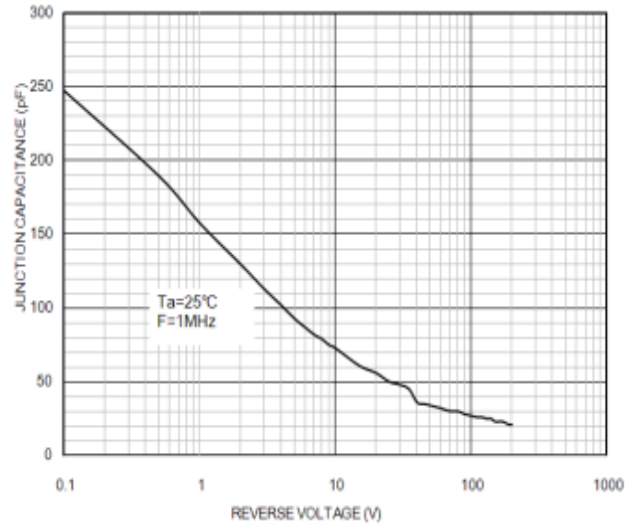


Fig.5 Reverse recovery time versus dIF/dt

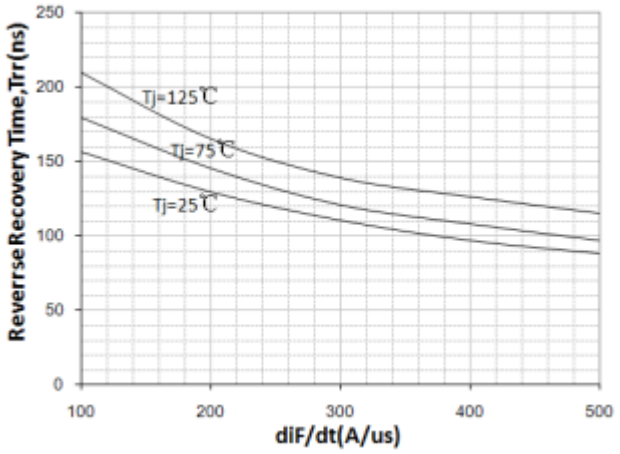
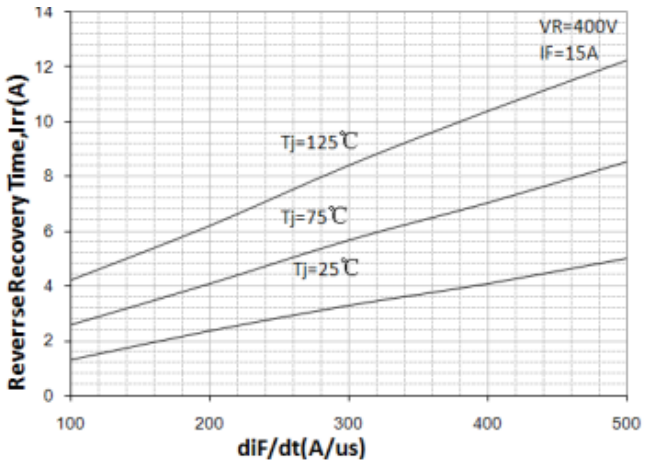


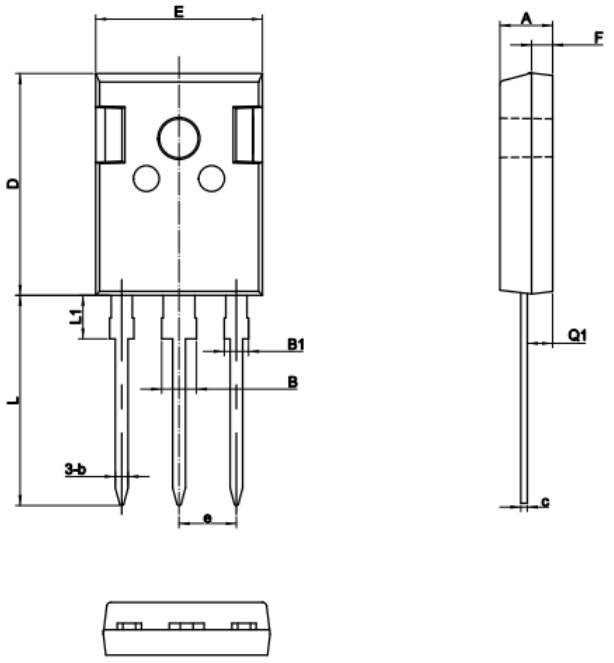
Fig.6 Peak reverse recovery current versus dIF/dt



外形尺寸 PACKAGE MECHANICAL DATA

TO-247

单位 Unit:mm



符号 symbol	mm	
	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
L1	4.03	4.23
Q	6.00	6.40
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。
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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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