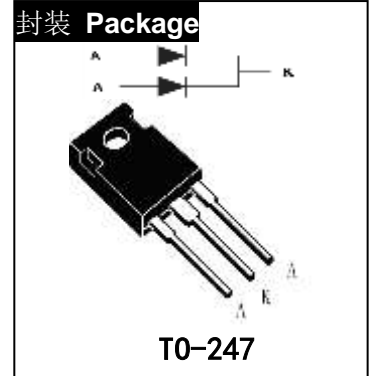




60F60W3T

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	$30 \times 2 A$
V_{RRM}	600 V
$V_F(typ)$	2.0V
$T_{rr} (typ)$	25ns



用途

- 有源 PFC
- 开关电源
- 光伏逆变
- UPS

APPLICATIONS

- Active PFC
- Switch power supply
- Photovoltaic inverter
- UPS

产品特性

- 超快恢复时间
- 低恢复损耗
- 低漏电流

FEATURES

- Ultrafast Recovery Time
- Low Recovery Loss
- 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		
60F60W3T-GE-B	60F60W3T-GE-BR	60F60W3T	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
反向重复峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	600	V
平均正向整流电流 $T_c=110^\circ\text{C}$ Average Forward Rectified Current	$I_{F(AV)}$	60	A
整个器件 per package 单 侧 per diode		30	
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10\text{ms}$	I_{FSM}	300	A
结温 Junction Temperature	T_j	-55~+175	$^\circ\text{C}$
储存温度 Storage temperature range	T_{STG}	-55~+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	$I_R=50\mu\text{A}$		600	-	-	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	$T_j=25^\circ\text{C}$	$I_F=30\text{A}$ per diode	-	2.0	2.5	V
	$T_j=125^\circ\text{C}$		-	1.7	2.1	V
trr	$I_F=0.5\text{A}, I_R=1\text{A}, I_{RR}=0.25\text{A}$		-	30	40	ns
trr	$I_F=1\text{A}, V_R=30\text{V}, di_F/dt=-100\text{A}/\mu\text{s}$		-	25	30	ns
trr	$I_F=30\text{A}, V_R=200\text{V}, di_F/dt=-200\text{A}/\mu\text{s}$		-	30	-	ns
Qrr	$T_c=25^\circ\text{C}$		-	23	-	nc
I_{RRM}			-	1.5	-	A
trr			-	91	-	ns
Qrr	$T_c=125^\circ\text{C}$		-	173	-	nc
I_{RRM}			-	3.8	-	A

热特性 THERMAL CHARACTERISTICS (per diode)





60F60W3T

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	$^{\circ}\text{C}/\text{W}$

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

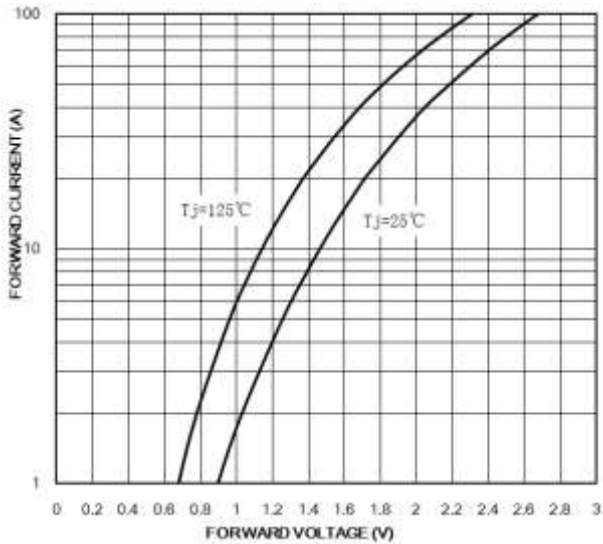


Fig.2 TYPICAL REVERSE CHARACTERISTICS

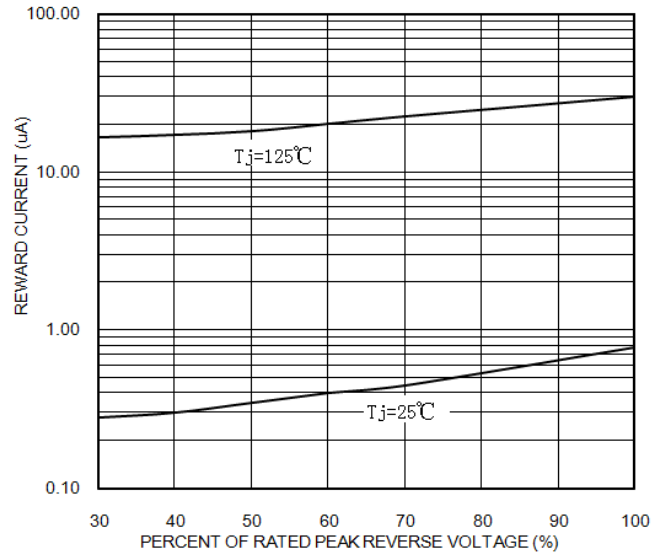


Fig.3 Reverse recovery time versus di/dt

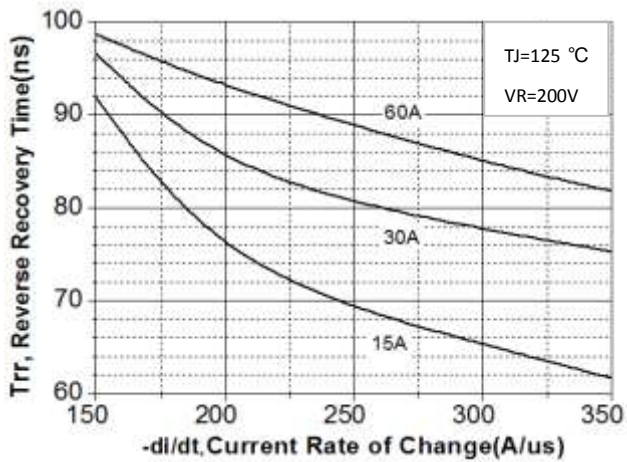


Fig.4 Peak reverse recovery current versus di/dt

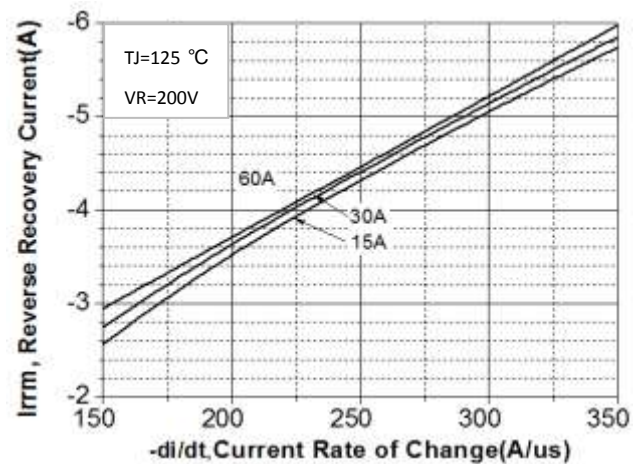


Fig.5 Reverse recovery charges versus di/dt

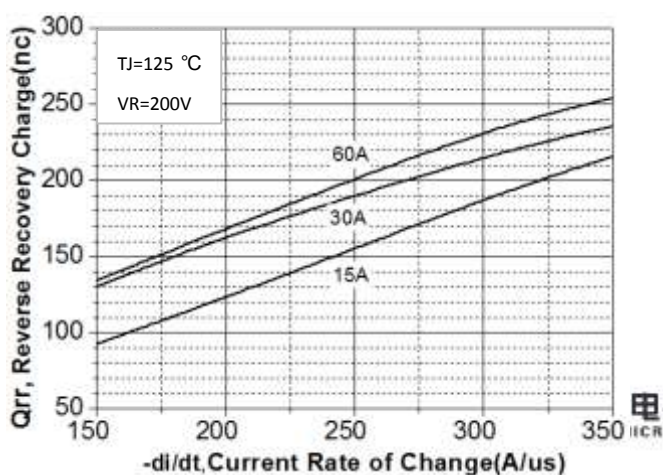
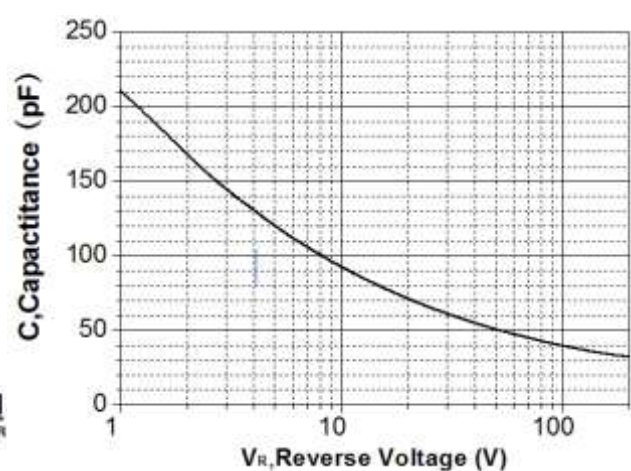


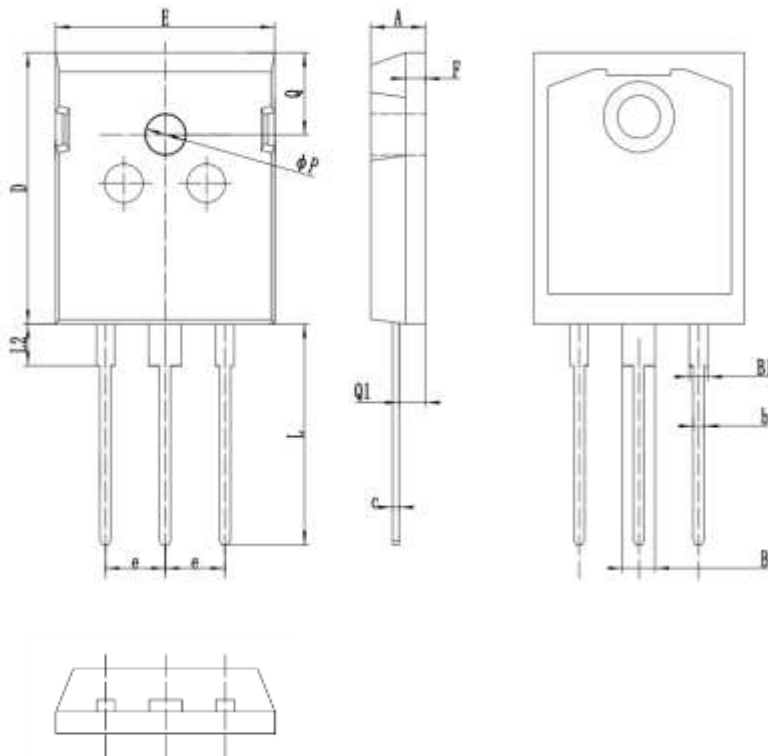
Fig.6 TYPICAL JUNCTION CAPACITANCE



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
L2	4.03	4.23
Q1	6.00	6.40
P	2.30	2.50



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联系方式

吉林华微电子股份有限公司

公司地址：吉林省吉林市深圳街 99 号

邮编：132013

总机：86-432-64678411

传真：86-432-64665812

网址：www.hwdz.com.cn

CONTACT

JILIN SINO-MICROELECTRONICS CO., LTD.

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64678411

Fax: 86-432-64665812

Web Site: www.hwdz.com.cn