



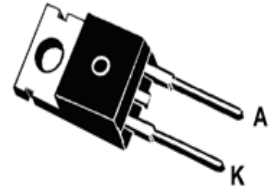
20F60C

主要参数 MAIN CHARACTERISTICS

IF(AV)	20A
VRRM	600V
VF(typ)	1.5V
Trr (typ)	30ns

封装 Package

K A



TO-220C-2L

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
- 高浪涌电流
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High surge current capability
- 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		
20F60C-CL-B	20F60C -CL-BR	20F60C	TO-220C-2L



**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 ($T_c=100^{\circ}\text{C}$) Average Forward Rectified Current	$I_{F(AV)}$	20	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10.0\text{ms}$	I_{FSM}	200	A
结温 Junction Temperature	T_j	$-50\sim+150$	$^{\circ}\text{C}$
存储温度 Storage Temperature Range	T_{STG}	$-50\sim+150$	$^{\circ}\text{C}$

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 =50μA		600	-	-	V
I _R	T _j =25℃	V _R =600V	-	-	10	μA
	T _j =150℃		-	-	200	μA
V _F	T _j =25℃	I _F =20A	-	1.5	1.9	V
	T _j =150℃		-		1.7	V
T _{rr}	I _F =0.5A I _R =1.0A I _{RR} =0.25A		-	30	45	ns
T _{rr}	I _F =20A, V _R =400V, diF/dt=300A/μs T _j =25℃			101.5		ns
Q _{rr}				237.27		nc
I _{R_{RRM}}				4.48		A
T _{rr}	I _F =20A, V _R =400V, diF/dt=300A/μs T _j =125℃		-	128.2	-	ns
Q _{rr}			-	854.34	-	nc
I _{R_{RRM}}			-	10.84	-	A

热特性 THERMAL CHARACTERISTICS (maximum)

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	$R_{th(j-c)}$	1.2	$^{\circ}\text{C}/\text{W}$



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

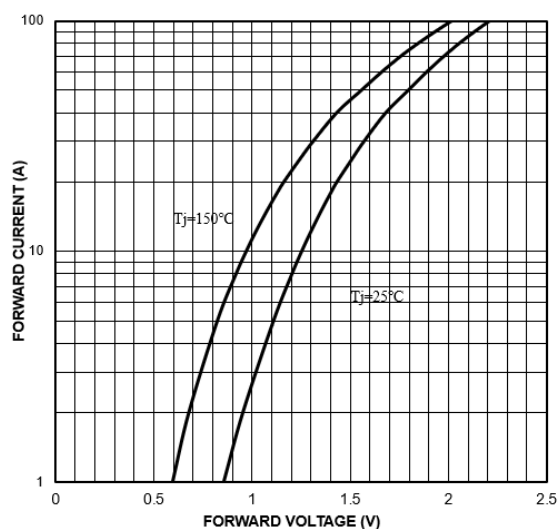


Fig.2 TYPICAL REVERSE CHARACTERISTICS

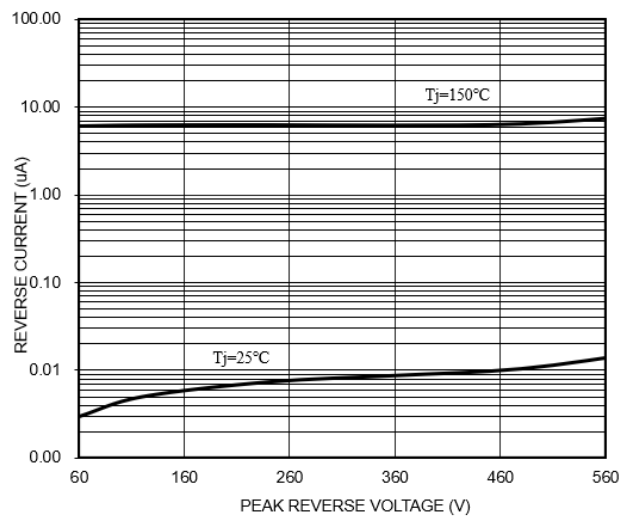


Fig.3 TYPICAL JUNCTION CAPACITANCE

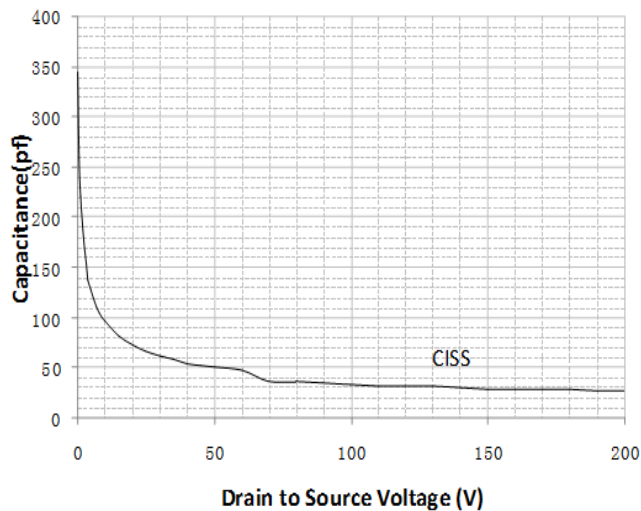


Fig.4 FORWARD CURRENT DERATING CURVE

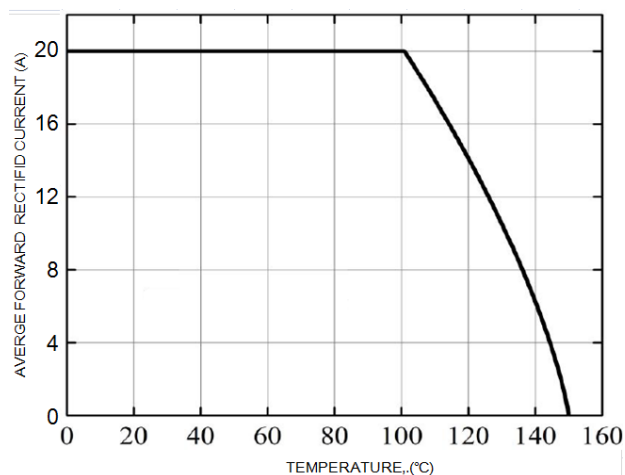


Fig.5 Reverse recovery time versus di/dt

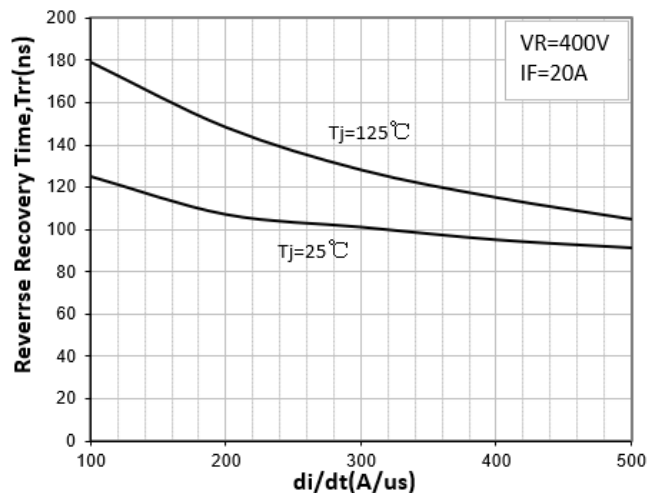


Fig.6 Peak reverse recovery current versus di/dt

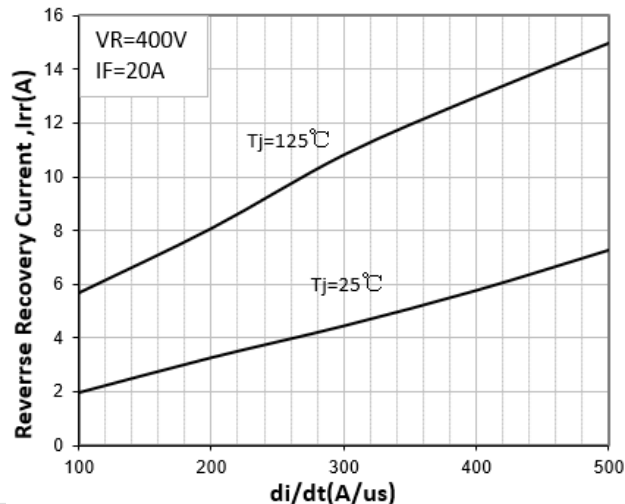
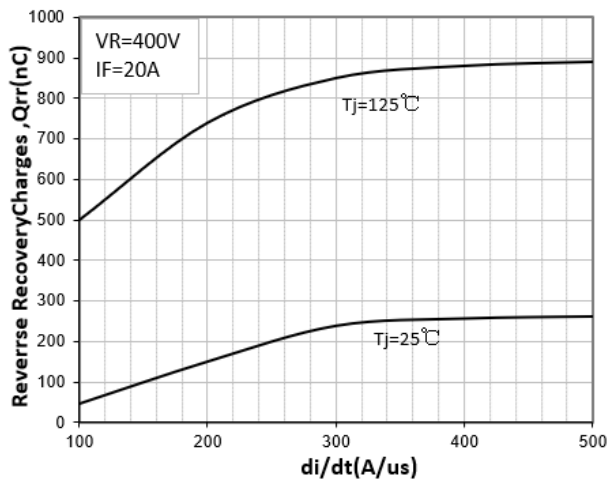


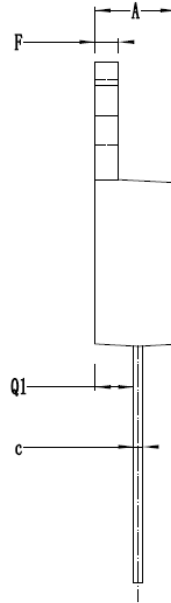
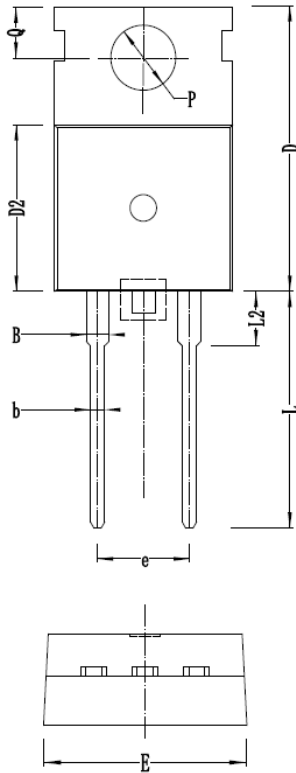
Fig.7 Reverse recovery charges versus di/dt 



外形尺寸 PACKAGE MECHANICAL DATA

TO-220C-2L

单位 Unit : mm



符号 symbol	单位: mm	
	MIN	MAX
A	4.30	4.70
B	1.22	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	4.78	5.38
F	1.25	1.40
L	12.60	13.60
L2	2.80	3.20
ΦP	3.50	3.80
Q	2.60	3.00
Q1	2.20	2.60

注:

1. 虚线区域代表, 此位置有、无余留, 均为我司受控外形;





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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。

NOTE

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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

