



FP15U60AA

主要参数 MAIN CHARACTERISTICS

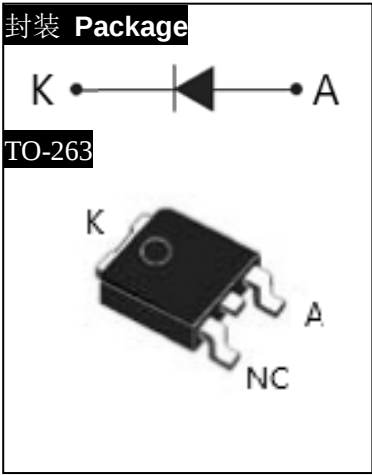
IF(AV)	15A
VRRM	600 V
VF(typ)	1.9 V
trr (typ)	22ns

用途

- 开关电源
- 通用电路

APPLICATIONS

- Switch power supply
- General circuits



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	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
FP15U60AA-S-B	FP15U60AA-S-BR	FP15U60AA-S-A	FP15U60AA-S-AR	FP15U60AA	TO-263



**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
正向平均整流电流 Average forward current $T_C=100^{\circ}\text{C}$	$I_{F(AV)}$	15	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) $t=10\text{ms}$	I_{FSM}	150	A
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)

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 =V _{RRM}	-	-	10	μA
	T _j =125℃		-	-	200	μA
V _F	T _j =25℃	I _F =15A	-	1.9	2.4	V
	T _j =125℃		-	1.5	2.2	V
T _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A		-	22	35	ns
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs			22		ns
T _{rr}	I _F =15A, V _R =400V, di _F /dt=200A/μs		-	37	-	ns
I _{RM}			-	2.4	-	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 from junction to case	$R_{th(j-c)}$	2.0	℃/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

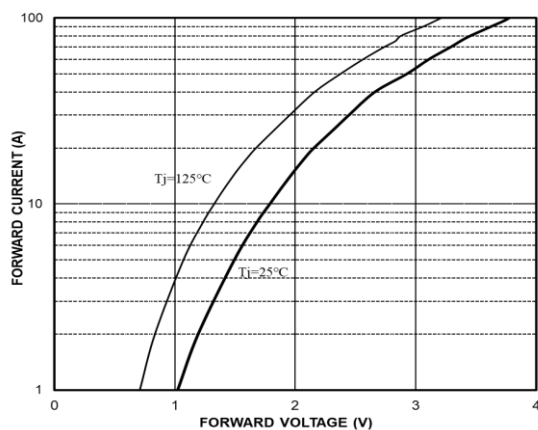


Fig.2 TYPICAL REVERSE CHARACTERISTICS

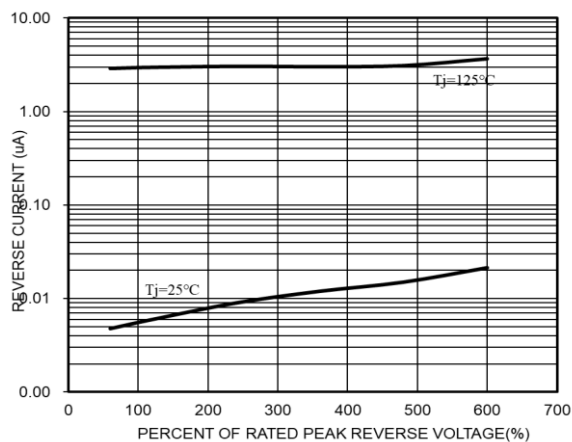


Fig.3 FORWARD CURRENT DERATING CURVE

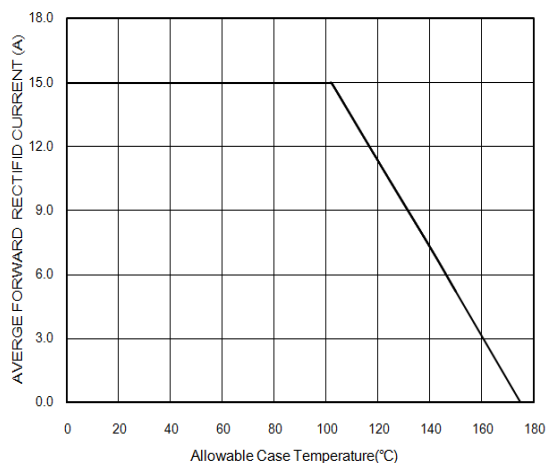
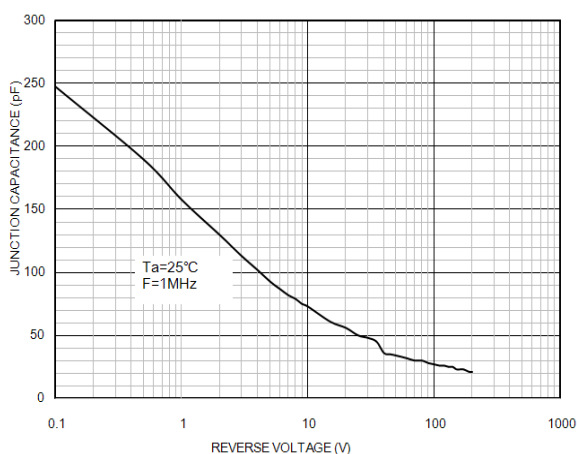
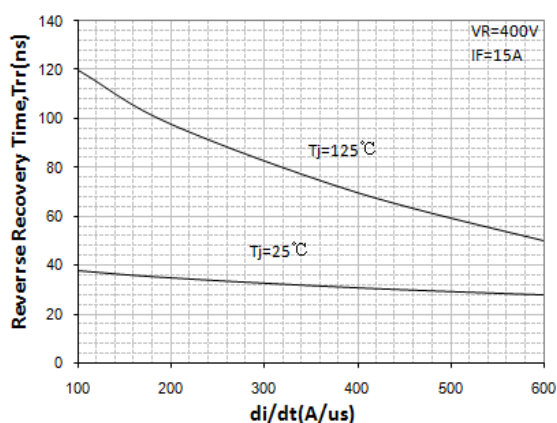
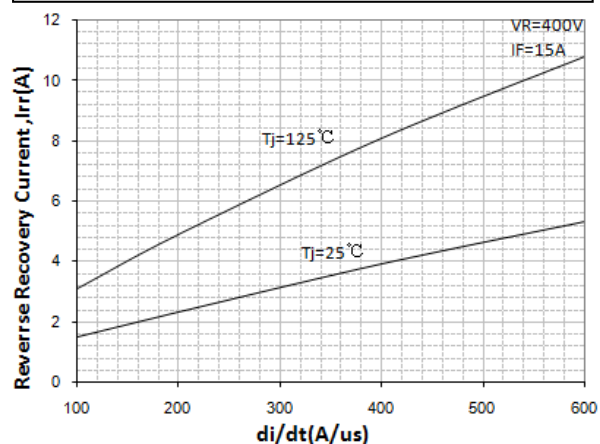


Fig.4 TYPICAL JUNCTION CAPACITANCE

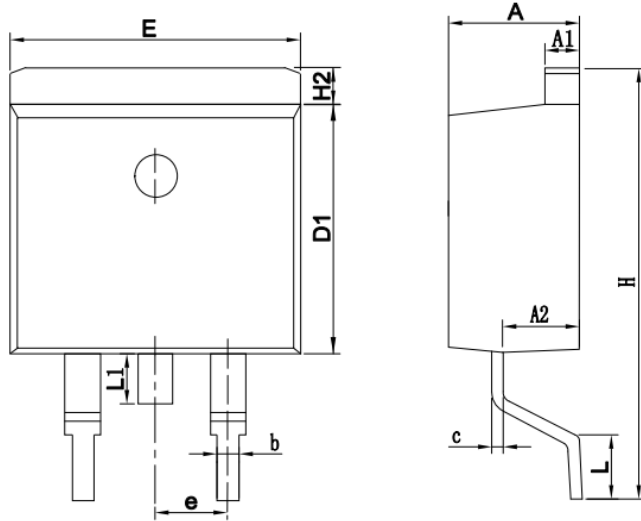
Fig.5 Reverse recovery time versus dI_F/dt Fig.6 Peak reverse recovery current versus dI_F/dt 



外形尺寸 PACKAGE MECHANICAL DATA

TO-263

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	4.30	4.80
A1	1.12	1.42
A2	2.54	2.84
b	0.67	1.00
c	0.29	0.52
D1	8.40	9.00
E	9.80	10.46
e	2.54BSC	
H	14.00	16.00
H2	1.12	1.45
L	1.50	3.10
L1	1.45	1.70





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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。

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

