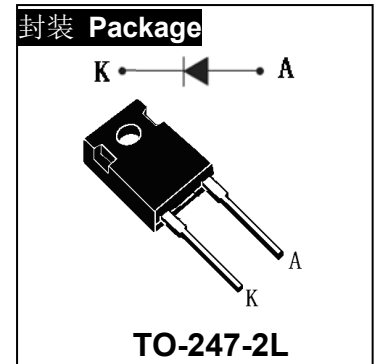




FP75U60SA

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	75A
V_{RRM}	600 V
$V_F(typ)$	2.1V
$T_{rr} (typ)$	40ns



用途

- 电动汽车充电站
- UPS
- 焊机
- 光伏逆变
- 高频开关器件并联二极管

APPLICATIONS

- EV Chargers
- UPS
- Welding machine
- Photovoltaic inverter
- Antiparalle Diode for high frequency switching devices

产品特性

- 超快恢复时间
- 低恢复损耗
- 低正向压降
- 低漏电流

FEATURES

- Ultrafast Recovery Time
- Low Recovery Loss
- Low Forward Voltage
- 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		
FP75U60SA-GL-B	FP75U60SA-GL-BR	FP75U60SA	TO-247-2L



**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 $T_c=110^{\circ}\text{C}$ Average Forward Rectified Current	$I_{F(AV)}$	75	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$	I_{FSM}	550	A
结温 Junction Temperature	T_j	$-55\sim+175$	$^{\circ}\text{C}$
存储温度 Storage temperature range	T_{STG}	$-55\sim+175$	$^{\circ}\text{C}$

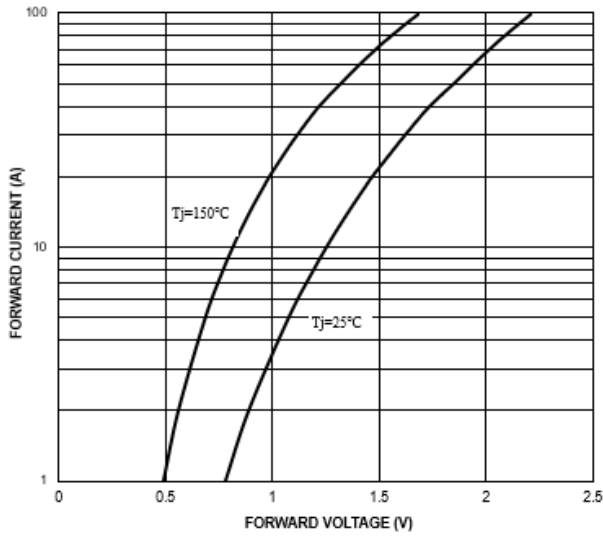
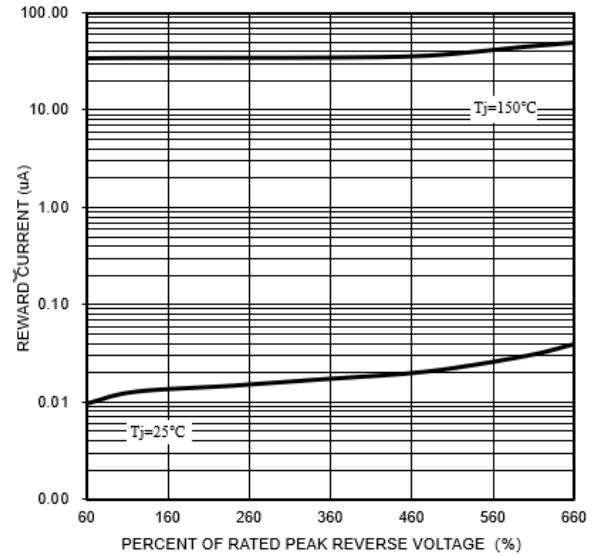
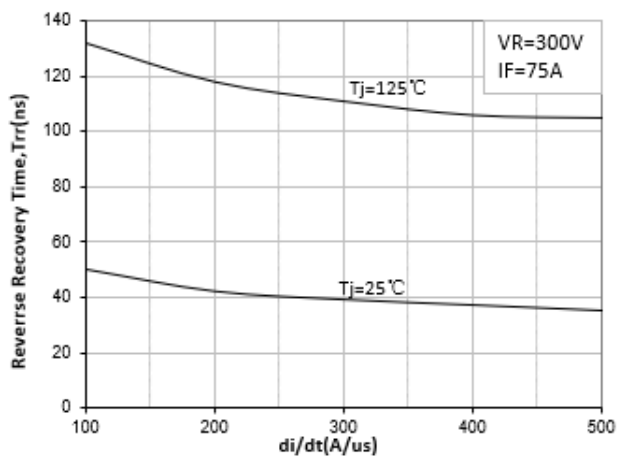
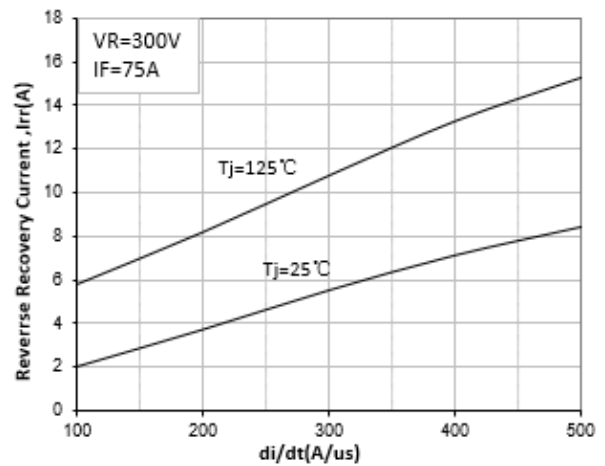
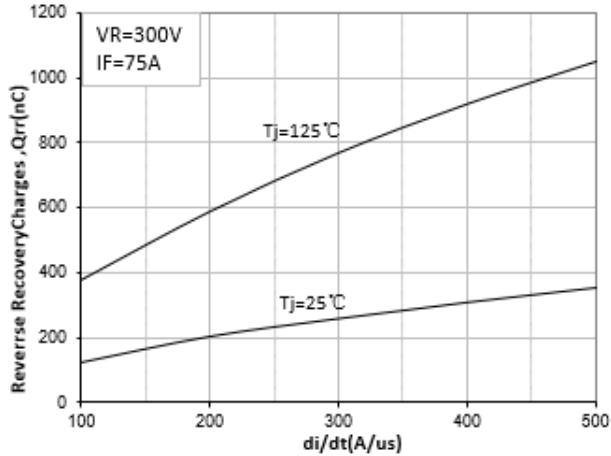
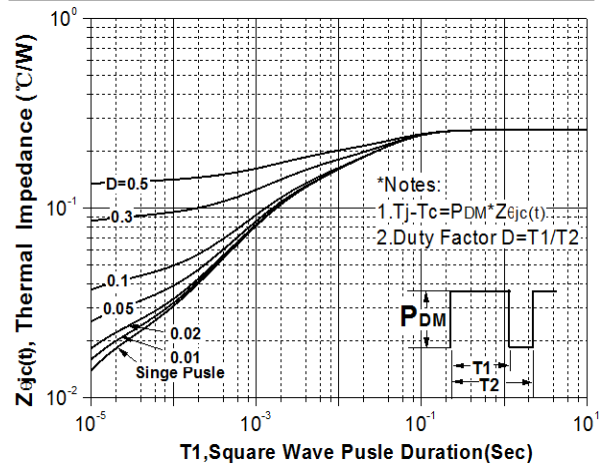
电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

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 =V _{RRM}	-	-	10	μA
	T _j =150℃		-	-	500	μA
V _F	T _j =25℃	I _F =75A	-	2.1	2.5	V
	T _j =150℃		-	1.6	2.0	V
trr	I _F =0.5A, I _R =1A, I _{RR} =0.25A		-	40	50	ns
trr	I _F =75A, V _R =300V, di _F /dt=-200A/μs T _C =25℃		-	42	-	ns
Qrr			-	203	-	nc
I _{RRM}			-	3.7	-	A
trr	I _F =75A, V _R =300V, di _F /dt=-200A/μs T _C =125℃		-	118	-	ns
Qrr			-	588	-	nc
I _{RRM}			-	8.2	-	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	$R_{th(j-c)}$	0.5	$^{\circ}\text{C}/\text{W}$



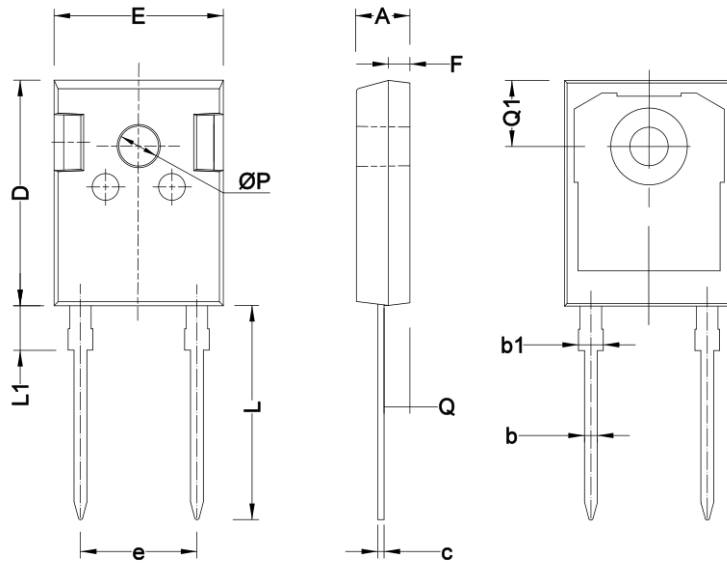
**特征曲线 ELECTRICAL CHARACTERISTICS (curves)****Fig.1 TYPICAL FORWARD CHARACTERISTICS****Fig.2 TYPICAL REVERSE CHARACTERISTICS****Fig.3 Reverse recovery time versus di/dt** **Fig.4 Peak reverse recovery current versus di/dt** **Fig.5 Reverse recovery charges versus di/dt** **Fig.6 Transient Thermal Response Curve**



外形尺寸 PACKAGE MECHANICAL DATA

TO-247-2L

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	4.80	5.20
b	1.10	1.30
b1	1.95	2.25
c	0.50	0.70
D	20.80	21.20
E	15.60	16.00
F	1.85	2.15
e	10.73	11.03
L	19.62	20.22
L1	3.93	4.33
ΦP	3.40	3.80
Q	2.26	2.56
Q1	6.00	6.40



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2. 购买时请认清公司商标，如有疑问请与公司本部联系。
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。

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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