

F60U20WT

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	60 A
V_{RRM}	200 V
T_j	175 °C
$V_F(typ)$	0.96V
$T_{rr} (typ)$	24ns

用途

- 开关电源
- 续流电路

APPLICATIONS

- switch power supply
- Free wheeling diodes,

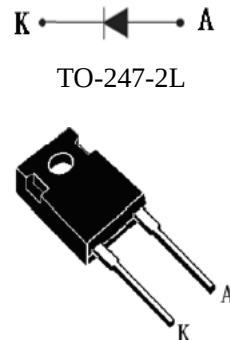
产品特性

- 低功耗，高效率
- 良好的高温特性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High Operating Junction Temperature
- RoHS product

封装 Package



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
最大反向重复峰值电压 Repetitive peak reverse voltage	V_{RRM}	200	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	200	V
正向平均整流电流 ($T_C=110^{\circ}\text{C}$) Average forward current	$I_{F(AV)}$	60	A
正向峰值单脉冲浪涌电流 Single pulse forward current	I_{FSM}	720	A
最高结温 Maximum junction temperature	T_j	175	$^{\circ}\text{C}$
储存温度 Storage temperature range	T_{STG}	-40~+175	$^{\circ}\text{C}$

电特性 ELECTRICAL CHARACTERISTICS

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 =100μA		200	-	-	V
I _R	T _j =25℃	V _R =V _R RM	-	-	10	μA
	T _j =150℃		-	-	100	μA
V _F	T _j =25℃	I _F =60A	-	0.96	1.20	V
	T _j =125℃		-	0.86	1.10	V
T _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A		-	28	40	ns
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs		-	24	35	ns

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

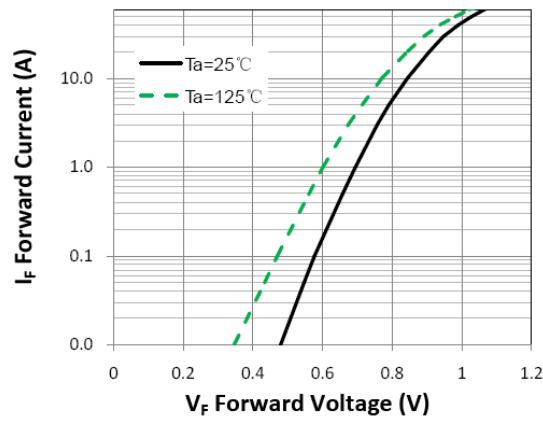


Figure 1. Forward Characteristic(typ.)

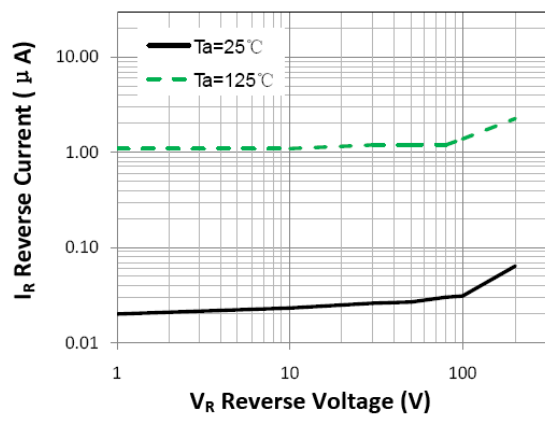
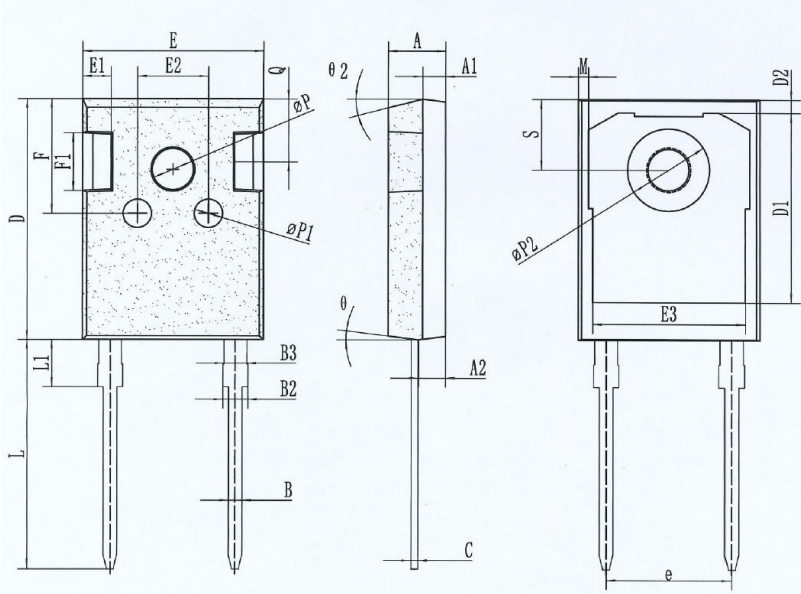


Figure 2. Reverse Characteristic (typ.)

外形尺寸 PACKAGE MECHANICAL DATA

TO-247-2L



COMMON DIMENSIONS			
SYMBOL	MM		
	MIN	NOM	MAX
A	4.90	5.00	5.10
A1	1.90	2.00	2.10
A2	2.30	2.40	2.50
B	1.15	1.20	1.25
B2	2.00	2.10	2.20
B3	1.90	2.00	2.10
C	0.55	0.60	0.65
D	20.90	21.00	21.10
D1	16.35	16.55	16.75
D2	1.02	1.17	1.32
E	15.70	15.80	15.90
E1	2.40	2.50	2.60
E2	6.10	6.20	6.30
E3	13.10	13.30	13.50
F	9.80	10.00	10.20
F1	4.90	5.00	5.10
e	10.872 BSC		
L	19.72	19.92	20.12
L1	3.90	4.10	4.30
φP	3.50	3.60	3.70
φP1	2.40	2.50	2.60
φP2	7.10	7.20	7.30
S	6.05	6.15	6.25
M	0.45	—	0.95
Q	5.60	5.80	6.00
θ	5°	7°	9°
θ 1	5°	7°	9°
θ 2	13°	15°	17°