

MUR3060F2

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	30A
V_{RRM}	600 V
T_j	175 °C
$V_F(typ)$	1.35V
$T_{rr} (typ)$	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



TO-220F-2L



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
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	600	V
正向平均整流电流 (TC=110℃) Average forward current	$I_{F(AV)}$	30	A
正向峰值单脉冲浪涌电流 Single pulse forward current	I_{FSM}	240	A
最高结温 Maximum junction temperature	T_j	175	℃
储存温度 Storage temperature range	T_{STG}	-55~+175	℃

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		600	-	-	V
I _R	T _j =25℃	V _R =V _{RRM}	-	-	10	μA
	T _j =150℃		-	-	100	μA
V _F	T _j =25℃	I _F =15A	-	1.35	1.85	V
	T _j =125℃		-	1.15	1.65	V
T _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A		-		50	ns
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs		-	24	45	ns

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

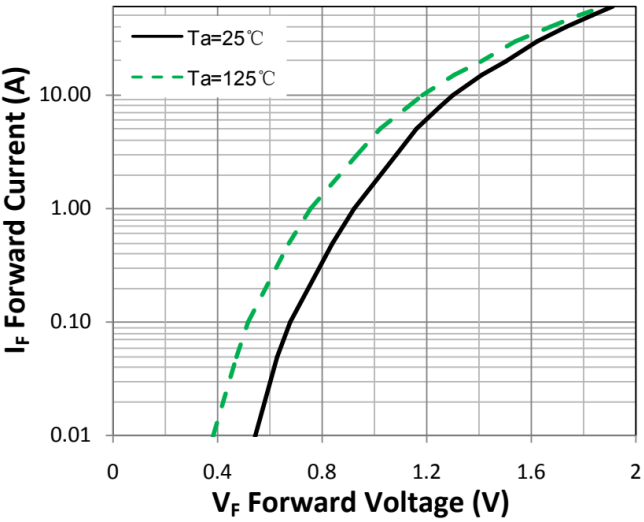


Figure 1. Forward Characteristic(typ.)

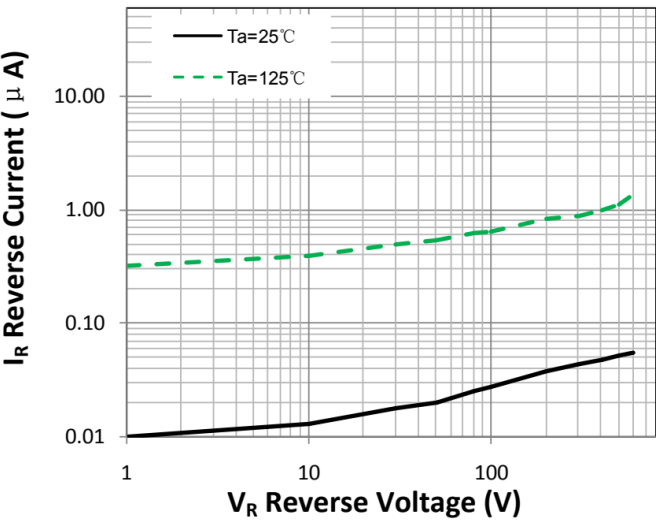
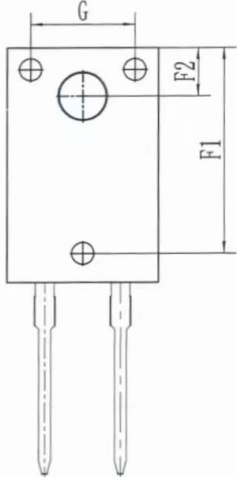
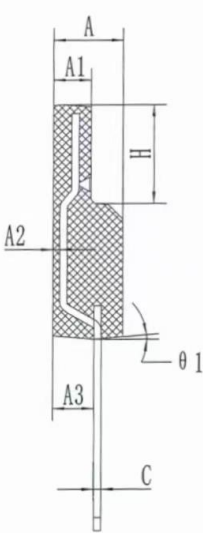
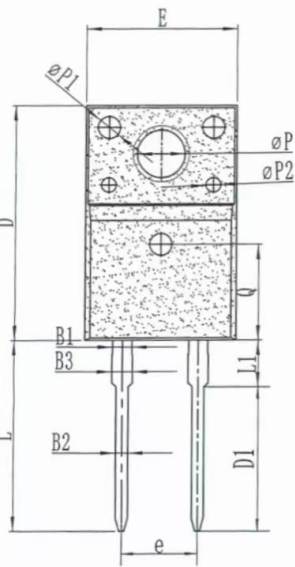


Figure 2. Reverse Characteristic (typ.)

外形尺寸PACKAGE MECHANICAL DATA

TO-220F-2L



COMMON DIMENSIONS			
SYMBOL	MM		
	MIN	NOM	MAX
A	4.50	4.70	4.90
A1	2.34	2.54	2.74
A2	0.38	0.43	0.48
A3	2.66	2.76	2.86
B1	1.24	1.29	1.34
B2	0.75	0.80	0.85
B3	1.28	1.36	1.44
C	0.45	0.50	0.60
D	15.67	15.87	16.07
D1	9.60	9.80	10.00
e	5.08 BSC		
H	6.48	6.68	6.88
E	9.96	10.16	10.36
E1	9.92	10.02	10.12
E2	9.36	9.46	9.56
F1	13.80	13.90	14.00
F2	3.20	3.30	3.40
G	6.90	7.00	7.10
K	0.65	0.70	0.75
L	12.76	12.96	13.16
L1	—	—	3.33
Q	6.47REF		
ΦP	3.00	3.18	3.38
ΦP1	1.40	1.50	1.60
ΦP2	0.95	1.00	1.05
θ1	3°	5°	7°