

SFP30H06A

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	30A
V_{RRM}	600 V
T_j	175 °C

用途

- 高频开关电源
- 续流电路和保护电路

APPLICATIONS

- High frequency switch power supply
- Free wheeling diodes, polarity protection applications

产品特性

- 低漏电流
- 超快开关，高效率
- 高的正向浪涌电流
- 环保（RoHS）产品

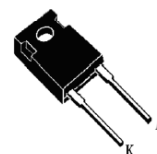
FEATURES

- Low reverse leakage
- Super fast switching for high efficiency
- high forward surge current capability
- RoHS product

封装 Package



T0-247-2L



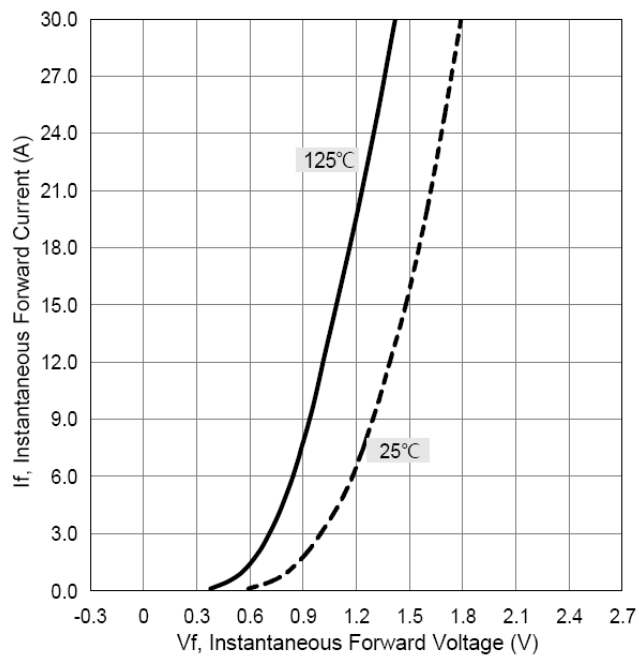
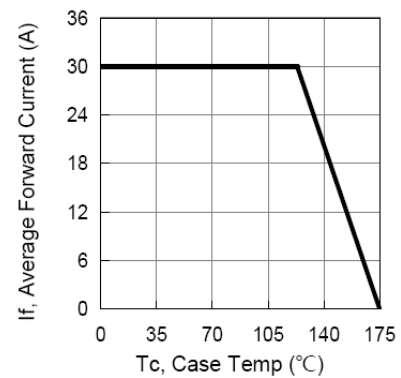
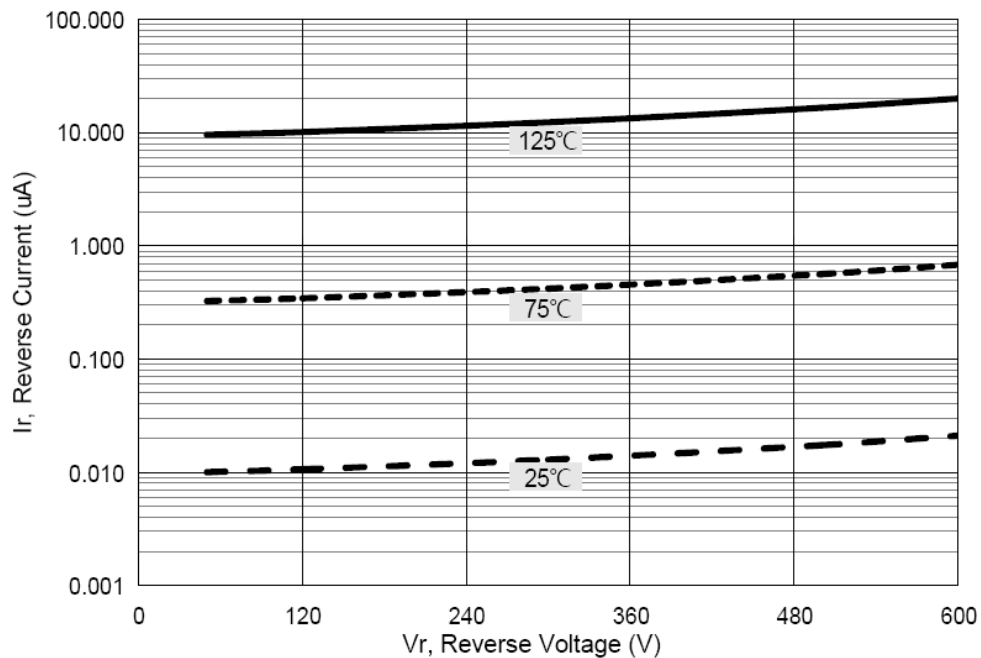
绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

项 目 Parameter	符 号 Symbol	SFP30H06A	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 Average forward current	$I_{F(AV)}$	30	A
反向恢复时间(note 1)	T_{rr}	≤ 40	ns
正向峰值浪涌电流 Surge non repetitive forward current (额定负载 8.3ms 半正弦波—按 JEDEC 方法) 8.3 ms single half-sine-wave (JEDEC Method)	I_{FSM}	300	A
结到管壳的热阻 Thermal resistance from junction to case	$R_{th(j-c)}$	0.5	℃/W
最高结温 Maximum junction temperature	T_j	175	℃
储存温度 Storage temperature range	T_{STG}	-55~+175	℃

Note: 1. Reverse recovery test conditions $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$

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	$I_R=100\mu A$		600	-	-	V
I_R	$T_j=25^\circ C$	$V_R=600$	-	-	0.01	mA
	$T_j=125^\circ C$		-	-	0.1	mA
V_F	$T_j=25^\circ C$	$I_F=30A$	-	1.8	2.3	V
	$T_j=125^\circ C$		-	-	2.0	V

特征曲线 ELECTRICAL CHARACTERISTICS (curves)**The forward voltage and forward current curve****Current derating curve, per element****The reverse leak current and the reverse voltage (single-device) curve.**

外形尺寸 PACKAGE MECHANICAL DATA
TO-247-2L

