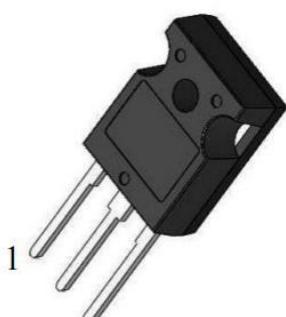
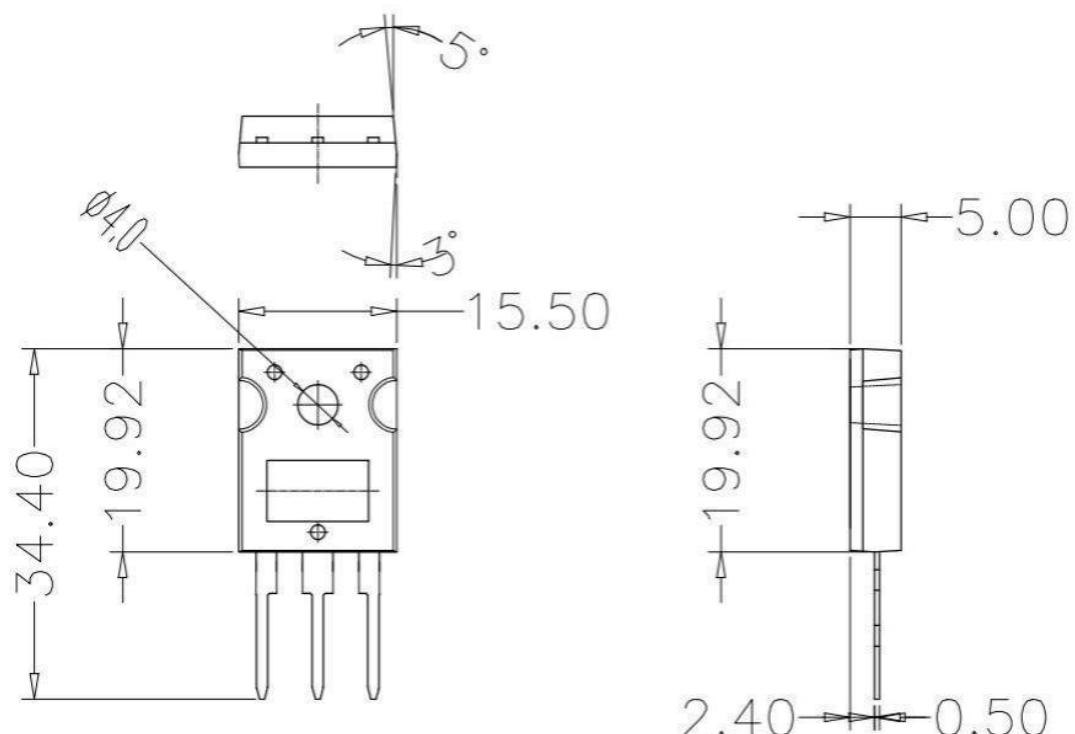
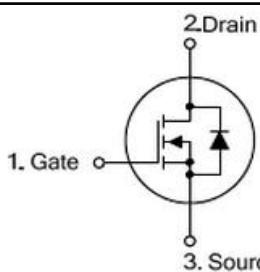


◆ Features:

- ◊ Fast switching speed
开关速度快
- ◊ High input impedance and low level drive
高输入阻抗和低电平驱动
- ◊ Avalanche energy tested
雪崩能量测试
- ◊ Improved dv/dt capability, high ruggedness
提高 dv/dt 能力，高耐用性

 RoHS
COMPLIANT**TO-247S****◆ Applications**

- ◊ High efficiency switch mode power supplies
高效率开关电源
- ◊ Power factor correction
功率因数校正
- ◊ Electronic lamp ballast
电子整流器





IRFP360PBF

400V N-CHANNEL MOSFET

<http://www.osen.net.cn>

◆ Absolute Maximum Ratings (Tc=25°C)

Symbol	Parameters	Ratings	Unit
V _{DSS}	Drain-Source Voltage 漏源电压	400	V
V _{GS}	Gate-Source Voltage-Continuous 栅源电压	±20	V
I _D	Drain Current-Continuous (Note 2) 漏极持续电流	23	A
I _{DM}	Drain Current-Single Plused (Note 1) 漏极单次脉冲电流	92	A
P _D	Power Dissipation (Note 2) 功率损耗	280	W
T _j	Max.Operating junction temperature 最大结温	150	°C

◆ Electrical characteristics (Tc=25°C unless otherwise noted)

Symbol	Parameters	Min	Typ	Max	Units	Conditions
Static Characteristics						
B _{VDSS}	Drain-Source Breakdown VoltageCurrent (Note 1) 漏极击穿电压	400	--	--	V	I _D =250μA, V _{GS} =0V, T _j =25°C
V _{GS(th)}	Gate Threshold Voltage 栅极开启电压	2	--	4.0	V	V _{DS} =V _{GS} , I _D =250μA
R _{DS(on)}	Drain-Source On-Resistance 漏源导通电阻	--	--	0.2	Ω	V _{GS} =10V, I _D =14A
I _{GSS}	Gate-Body Leakage Current 栅极漏电流	--	--	±100	nA	V _{GS} =±30V, V _{DS} =0
I _{DSS}	Zero Gate Voltage Drain Current 零栅极电压漏极电流	--	--	1	μA	V _{DS} =400V, V _{GS} =0
g _{fs}	Forward Transconductance 正向跨导	14	--	--	S	V _{DS} =50V, I _D =14A
Switching Characteristics						



IRFP360PBF

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T _{d(on)}	Turn-On Delay Time 开启延迟时间	--	20	--	ns	V _{DS} =200V, I _D =23A, R _G =4.3Ω (Note 2)
T _r	Rise Time 上升时间	--	80	--	ns	
T _{d(off)}	Turn-Off Delay Time 关闭延迟时间	--	100	--	ns	
T _f	Fall Time 下降时间	--	70	--	ns	
Q _g	Total Gate Charge 栅极总电荷	--	--	215	nC	V _{DS} =320V , V _{GS} =10V, I _D =23A (Note 2)
Q _{gs}	Gate-Source Charge 栅源极电荷	--	--	31	nC	
Q _{gd}	Gate-Drain Charge 栅漏极电荷	--	--	114	nC	

Dynamic Characteristics

C _{iss}	Input Capacitance 输入电容	--	4500	--	pF	V _{DS} =25V, V _{GS} =0, f=1MHz
C _{oss}	Output Capacitance 输出电容	--	1140	--	pF	
C _{rss}	Reverse Transfer Capacitance 反向传输电容	--	500	--	pF	
I _S	Continuous Drain-Source Diode Forward Current (Note 2) 二极管导通正向持续电流	--	--	23	A	
V _{SD}	Diode Forward On-Voltage 二极管正向导通电压	--	--	1.4	V	I _S =23A, V _{GS} =0
R _{th(j-c)}	Thermal Resistance, Junction to Case 结到外壳的热阻	--	--	0.45	°C/W	

Note 1: Repetitive Rating : Pulse width limited by maximum junction temperature

Note 2: Pulse test: PW <= 300us , duty cycle <= 2%.