

FH4608
增强型N+P沟道MOS管
特点

- 超高密度电池设计
- 可靠耐用
- 封装形式：SO-8
- 工作温度范围：-55~150℃

产品应用

- 用在笔记本电脑的电源管理系统
- 用在便携式设备和电池的供电系

■ 特征
N沟道

60V/6A

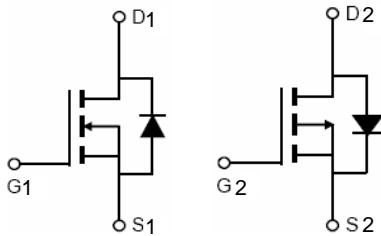
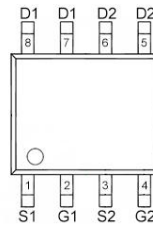
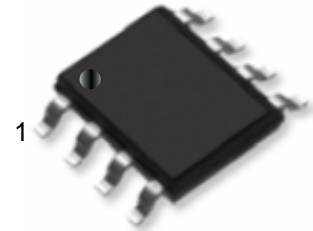
 $R_{DS(ON)}=27m\Omega$ (typ.) @VGS= 10V

 $R_{DS(ON)}=35m\Omega$ (typ.) @VGS= 4.5V

P沟道

-60V/-4.8A

 $R_{DS(ON)}=48m\Omega$ (typ.) @VGS= -10V

 $R_{DS(ON)}=60m\Omega$ (typ.) @VGS= -4.5V

N-channel
P-channel
Schematic diagram

Marking and pin assignment

SO-8 top view
绝对最大额定值 (TA=25℃ 除非另有说明)

符号	参数	N 沟道	P 沟道	单位
V _{DS}	漏源电压	60	-60	V
V _{GS}	栅源电压	±20	±20	V
I _D	漏极连续电流	6	-4.8	A
I _{DM}	漏极脉冲电流	24	-19	
T _J	工作结最高温度	150		℃
T _{STG}	储存温度范围	-55—150		
P _D	功耗	T _A =25℃	2	W
		T _A =100℃	0.8	
R _{θJA}	Thermal Resistance -Junction to Ambient	75.5		℃/W

电气特性 (TA=25°C, 除非另有说明)

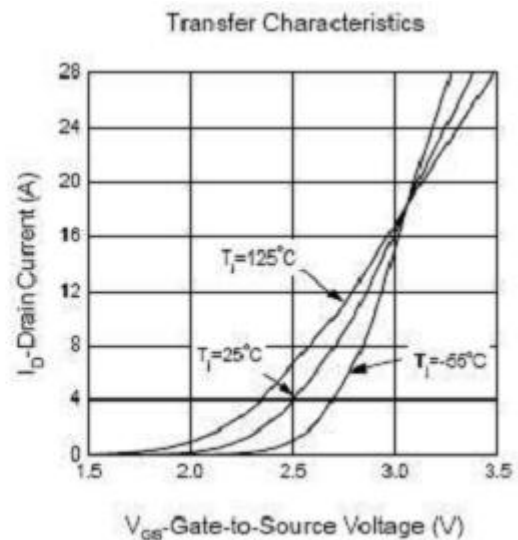
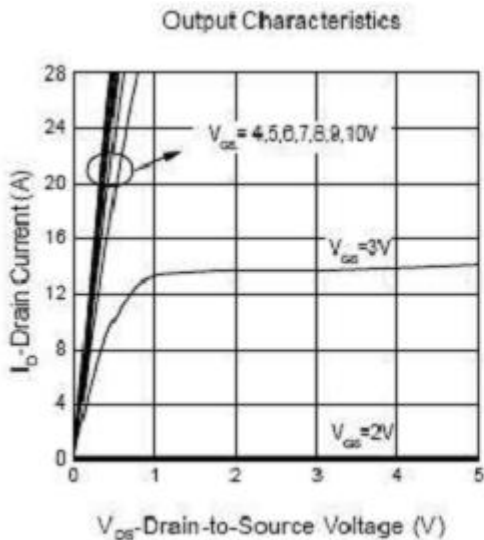
符号	参数	测试条件	最小值	典型值	最大值	单位	
静态							
BV _{DSS}	漏极击穿电压	V _{GS} =0V, I _{DS} =250uF	N-CH	60		V	
		V _{GS} =0V, I _{DS} =-250uF	P-CH	-60			
I _{DSS}	零栅极电压漏极电流	V _{DS} =48V, V _{GS} =0V	N-CH		1	uA	
		V _{DS} =-48V, V _{GS} =0V	P-CH		-1		
V _{GS(TH)}	栅极阈值电压	V _{DS} =V _{GS} , I _{DS} =250uA	N-CH	1.0	1.8	2.5	V
		V _{DS} =V _{GS} , I _{DS} =-250uA	P-CH	-1.0	-1.8	-2.5	
I _{GSS}	栅极漏电流	V _{GS} =±20V, V _{DS} =0V	N-CH			±100	nA
			P-CH			±100	
R _{DS(ON)}	漏源导通电阻	V _{GS} =10V, I _{DS} =5A	N-CH		27	34	mΩ
		V _{GS} =4.5V, I _{DS} =3A	N-CH		35	46	
		V _{GS} =-10V, I _{DS} =-3A	P-CH		48	60	
		V _{GS} =-4.5V, I _{DS} =-2A	P-CH		60	79	

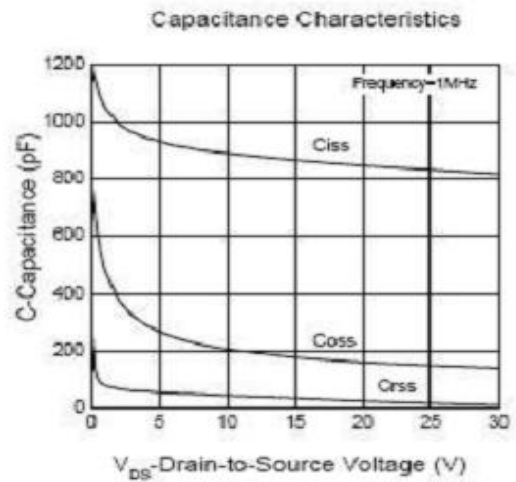
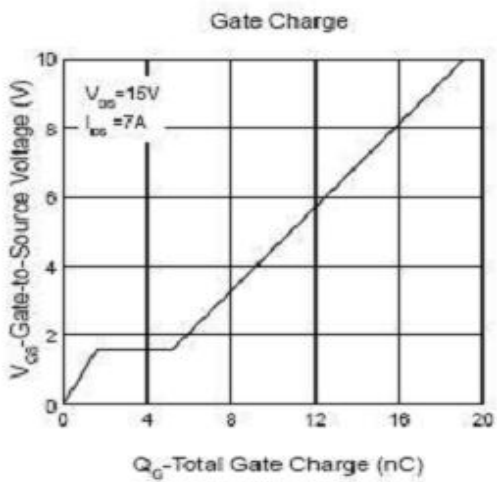
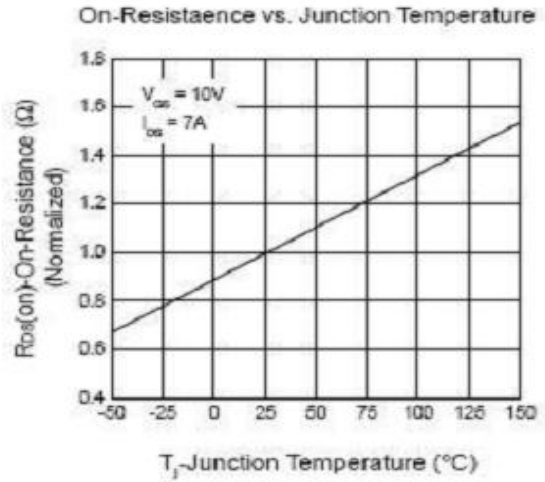
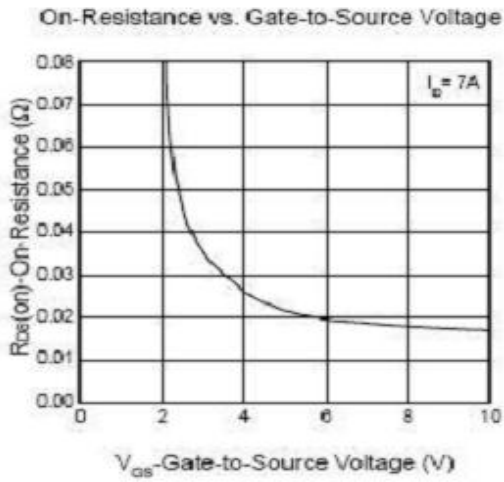
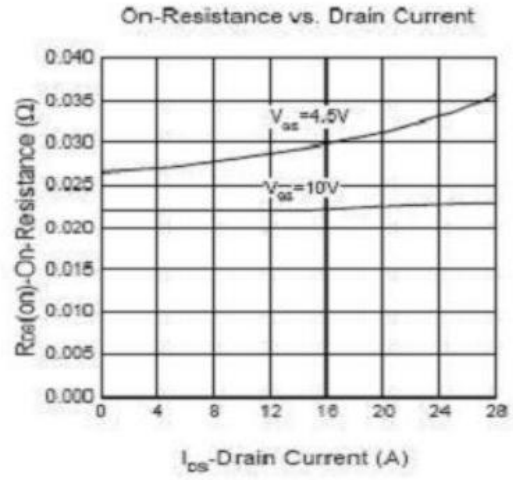
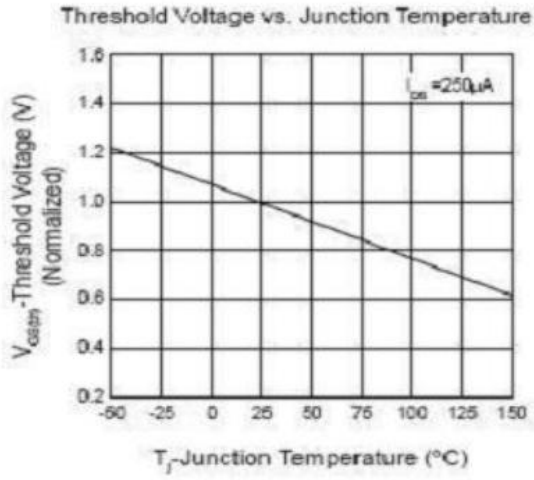
二极管							
V _{SD}	二极管正向电压	I _{SD} =2A, V _{GS} =0V	N-CH		0.7	1.2	V
		I _{SD} =-1A, V _{GS} =0V	P-CH		-0.7	-1.2	
动态							
R _G	栅极电阻	V _{GS} =0V, V _{DS} =0V, F=1MHZ	N-CH		2		Ω
			P-CH		19		
C _{ISS}	输入电容	N-Channel V _{GS} =0V V _{DS} =25V F=1MHZ P-Channel V _{GS} =0V V _{DS} =-25V F=1MHZ	N-CH		1050		pF
C _{OSS}	输出电容		P-CH		1370		
			N-CH		135		
C _{RSS}	反向传输电容		P-CH		162		
			N-CH		85		
t _{d(on)}	打开延时时间		N-Channel V _{DD} =15V, R _L =15Ω	N-CH		13	
		P-CH			15	28	

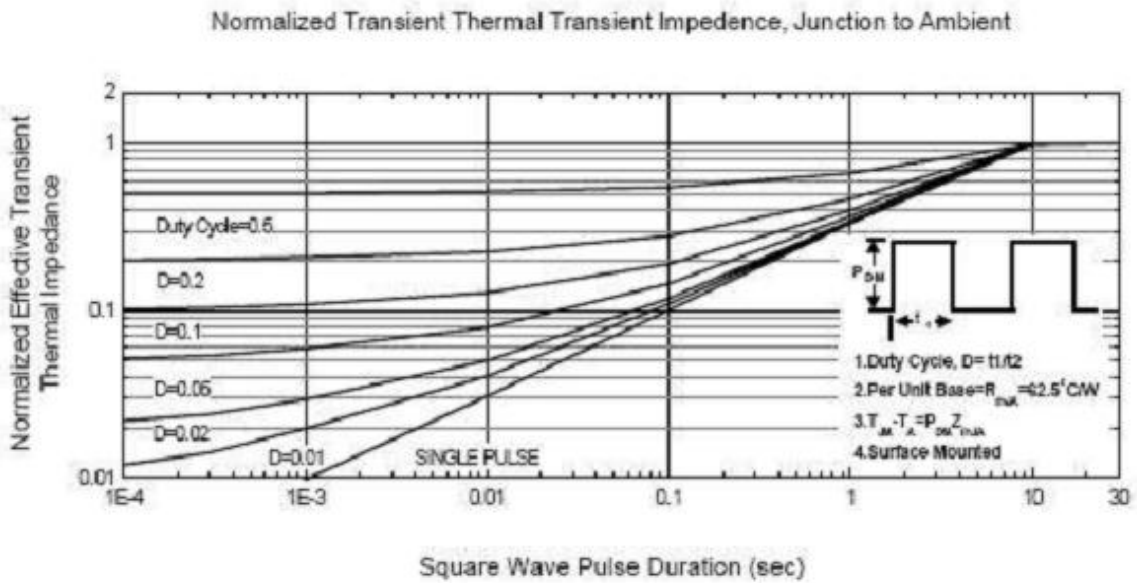
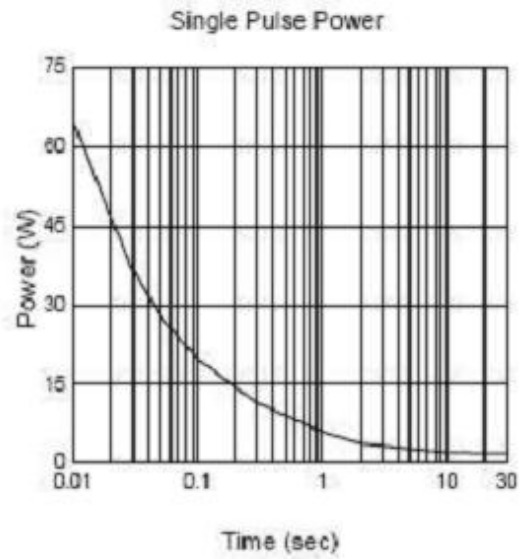
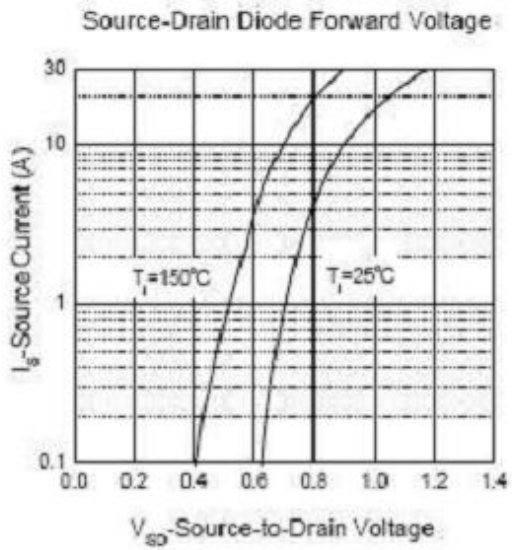
T _r	打开上升时间	I _{DS} =1A, V _{GEN} =10V R _G =6Ω	N-CH	21	29
			P-CH	15	29
T _{d(off)}	关掉延时时间	P-Channel V _{DD} =-15V, R _L =-15Ω	N-CH	36	62
			P-CH	35	60
T _f	关掉下降时间	I _{DS} =-1A, V _{GEN} =-10V R _G =6Ω	N-CH	20	36
			P-CH	15	30
栅极电荷					
Q _g	栅极总电荷	N-Channel V _{DS} =15V, V _{GS} =10V, I _{DS} =7A	N-CH	4.1	nC
			P-CH	9.2	
Q _{gs}	栅极源极电荷	P-Channel V _{DS} =-15V, V _{GS} =-10V, I _{DS} =-5.5A	N-CH	1	
			P-CH	1.6	
Q _{gd}	栅极漏极电荷		N-CH	2.1	
			P-CH	2.2	

典型特征

N 沟道

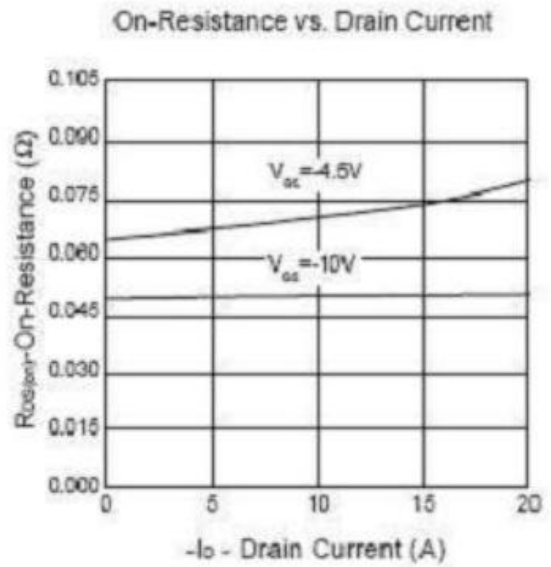
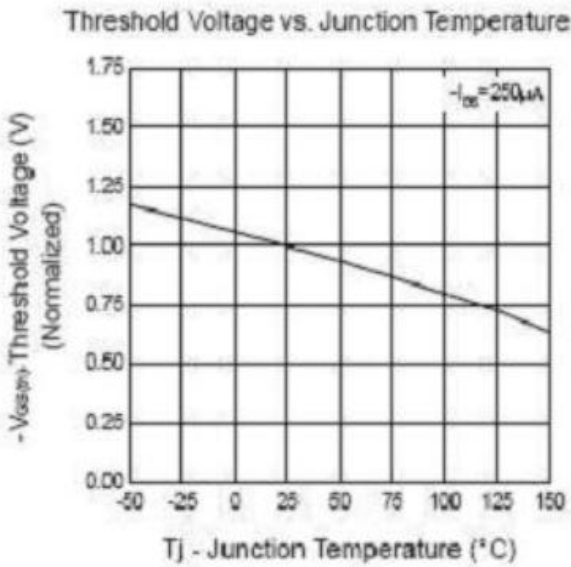
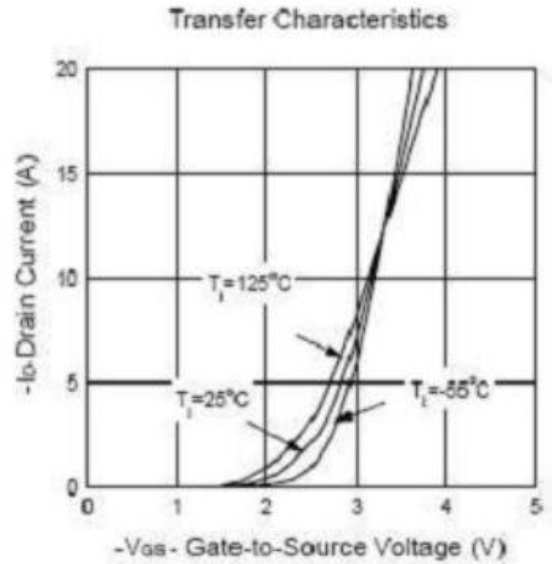
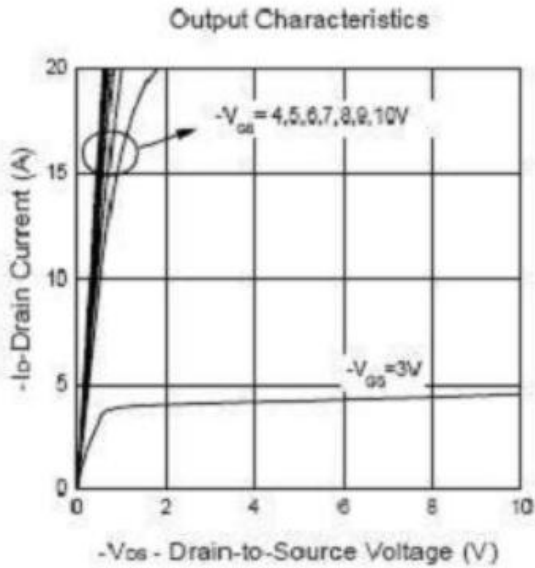


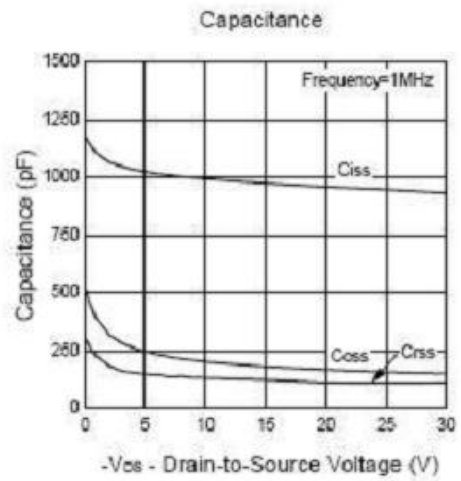
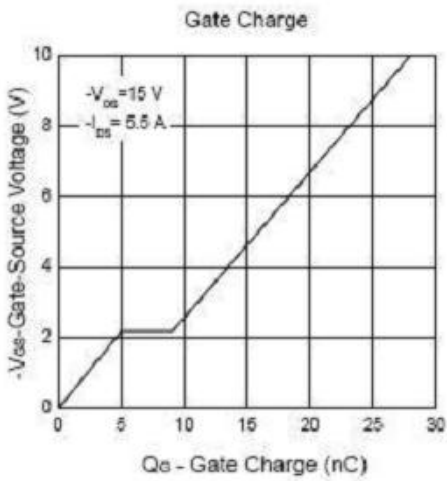
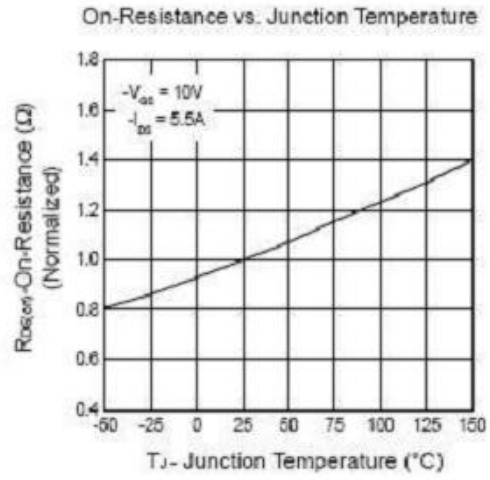
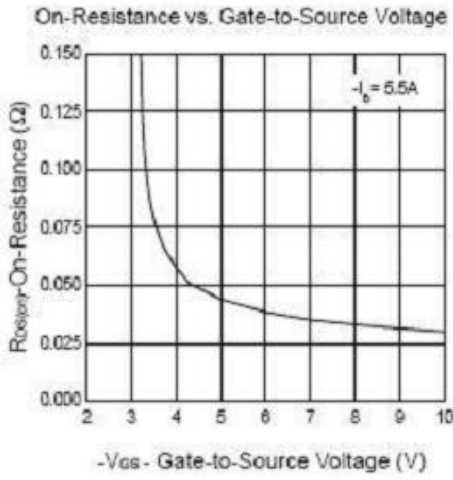


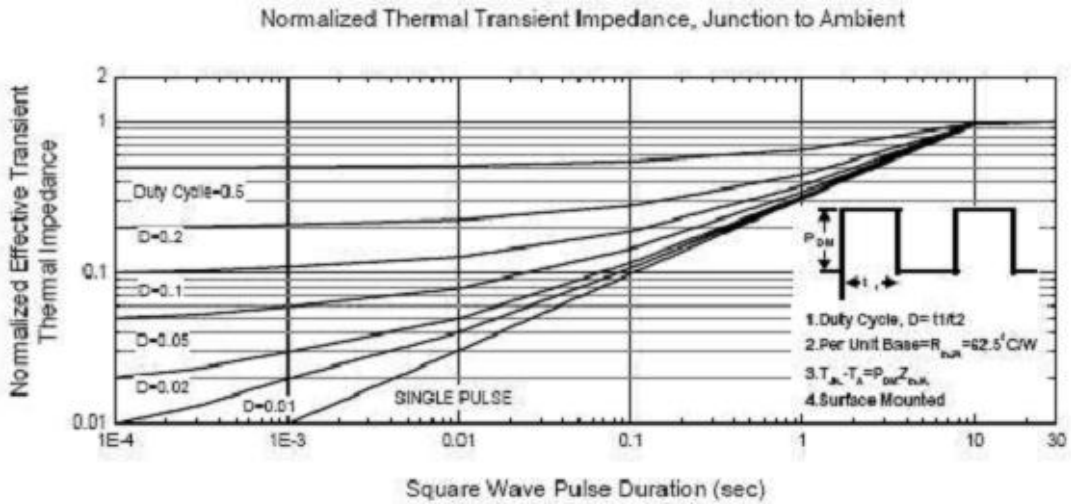
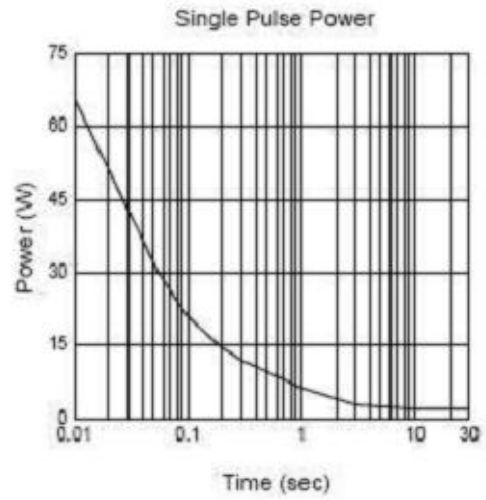
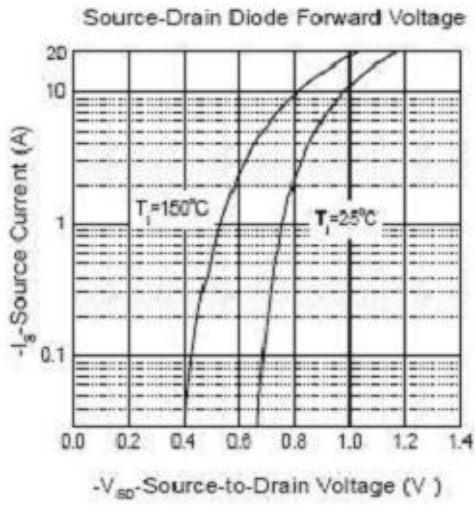


典型特性

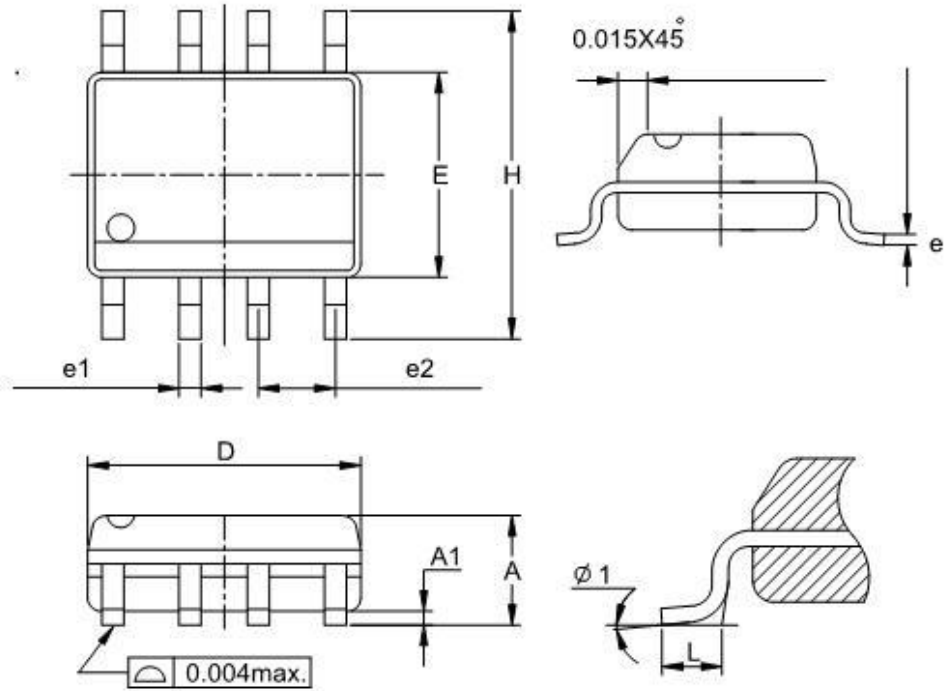
P 沟道







Package Information : SO-8



DIM	毫米		英寸	
	最小值	最大值	最小值	最大值
A	1.35	1.75	0.053	0.069
A1	0.10	0.25	0.004	0.010
D	4.80	5.00	0.189	0.197
E	3.80	4.00	0.150	0.157
H	5.80	6.20	0.228	0.244
L	0.40	1.27	0.016	0.050
E1	0.33	0.51	0.013	0.020
E2	1.27BSC		0.5BSC	
φ 1	8 °		8 °	

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