对应国外型号 SSS2N65

■ 主要用途

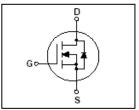
高速开关应用。

■ 极限值 (Ta=25°C)

T _{stg} —	一贮存温度・・・・・・-55~150℃
T _j	-结温······ 150℃
V _{DSS} -	——漏极—源极电压······650V
V _{GS} —	—
I _D	-漏极电流(T _c =25℃) ······1.8A
I _{DM} —	一漏极电流(脉冲)(注 1) ······7.2A
P _D	—耗散功率(T _c =25℃) ·······22.8W

■ 外形图及引脚排列





电参数(T_a=25℃)

参数符号	符号说明	最小值	典型值	最大值	单 位	测 试 条 件
$\mathrm{BV}_{\mathrm{DSS}}$	漏一源极击穿电压	650			V	$I_D = 250 \mu A, V_{GS} = 0 V$
I_{DSS}	零栅压漏极电流			1	μΑ	$V_{DS} = 650V, V_{GS} = 0$
I_{GSS}	栅极泄漏电流			±100	nA	$V_{GS}=\pm30V$, $V_{DS}=0V$
$V_{GS(th)}$	栅一源极开启电压	2.5		4.5	V	$V_{DS} = V_{GS}$, $I_D = 250 \mu A$
R _{DS(on)}	漏—源极导通电阻		4.5	6.0	Ω	$V_{GS}=10V, I_D=0.9A$
Ciss	输入电容		260	340	pF	
Coss	输出电容		25	33	pF	V_{DS} =25V, V_{GS} =0,f=1MHz
Crss	反向传输电容		5.5	7	pF	
$t_{d(on)}$	导通延迟时间		15	30	nS) W -225W
tr	上升时间		40	80	nS	V _{DS} =325V, I _D =1.8A (峰值)
$t_{d(off)}$	断开延迟时间		40	80	nS	$R_G = 25 \Omega$
t_{f}	下降时间		30	60	nS) (注2)
Qg	栅极总电荷		8.5	11	nC	$V_{\rm DS} = 520 V$
Qgs	栅极─源极电荷		2.0		nC	> VGS=10V
Qgd	栅极—漏极电荷		4.0		nC	ID=1.8A (注2)
Is	源极一漏极二极管正向电流			1.8	A	
$ m V_{SD}$	源极—漏极二极管导通电压			1.4	V	$I_{S} = 1.8A, V_{GS} = 0$
Rth (j-c)	热阻			5.5	°C/W	结到外壳

*注1:漏极电流受最大结温限制。

*注 2: 脉冲测试, 宽度≤300 μ S, 占空比≤2%

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典型特性曲线

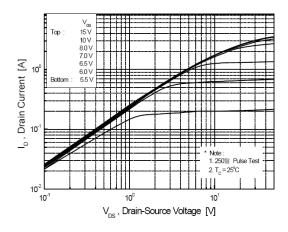


Figure 1. On Region Characteristics

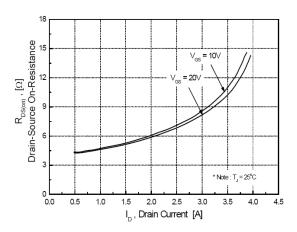


Figure 3. On Resistance Variation vs Drain Current and Gate Voltage

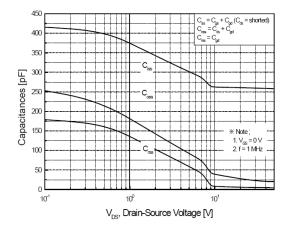


Figure 5. Capacitance Characteristics

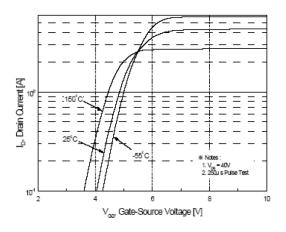


Figure 2. Transfer Characteristics

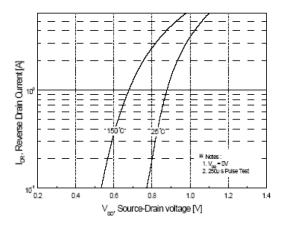


Figure 4. Body Diode Forward Voltage Variation with Source Current and Temperature

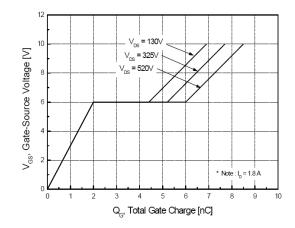


Figure 6. Gate Charge Characteristics

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■ 典型特性曲线

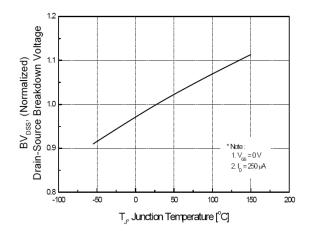


Figure 7. Breakdown Voltage Variation vs Temperature

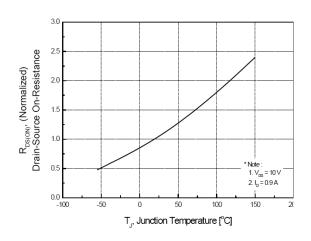


Figure 8. On-Resistance Variation vs Temperature

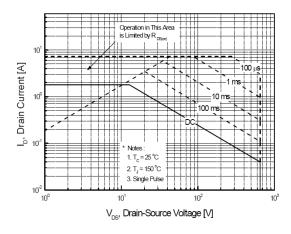


Figure 9. Maximum Safe Operating Area

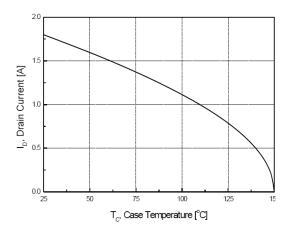


Figure 10. Maximum Drain Current vs Case Temperature

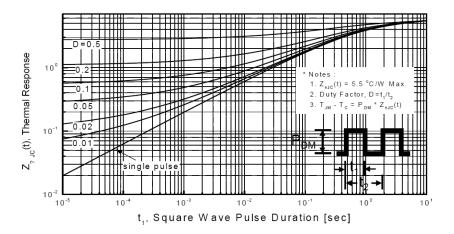


Figure 11. Transient Thermal Response Curve

N-Channel Enhancement Mode Field Effect Transistor

HFF2N65

对应国外型号 SSS2N65

■ 典型特性曲线

Fig 12. Gate Charge Test Circuit & Waveform

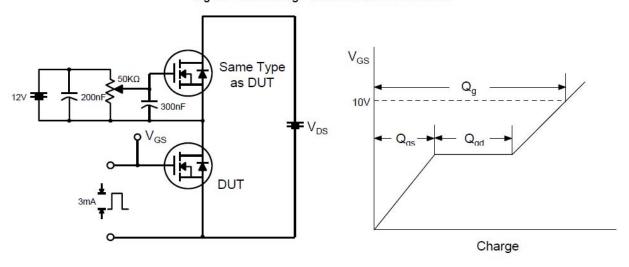


Fig 13. Resistive Switching Test Circuit & Waveforms

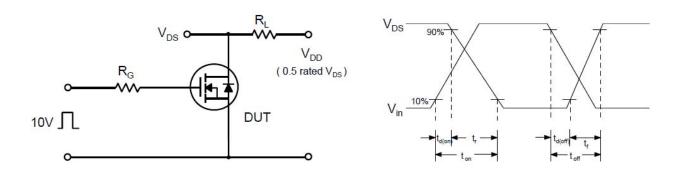
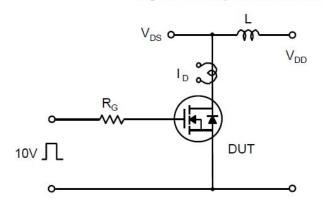
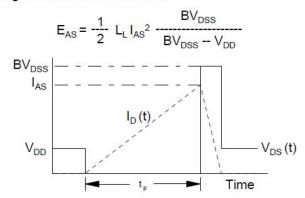


Fig 14. Unclamped Inductive Switching Test Circuit & Waveforms





对应国外型号 SSS2N65

典型特性曲线

Peak Diode Recovery dv/dt Test Circuit & Waveforms

