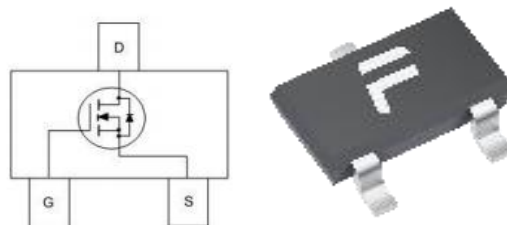


**SOT-23-3L 300V N Channel Enhancement 沟道增强型
MOS Field Effect Transistor 场效应管**



■ **Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Drain-Source Voltage 漏极-源极电压	BV_{DSS}	300	V
Gate- Source Voltage 栅极-源极电压	V_{GS}	± 20	V
Drain Current (continuous)漏极电流-连续	I_D (at $T_A = 25^\circ C$)	0.5	A
Drain Current (pulsed)漏极电流-脉冲	I_{DM}	3	A
Total Device Dissipation 总耗散功率	P_D (at $T_A = 25^\circ C$)	1500	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	83	$^\circ C/W$
Junction/Storage Temperature 结温/储存温度	T_J, T_{stg}	-55~150	$^\circ C$

■ **Device Marking 产品字标**

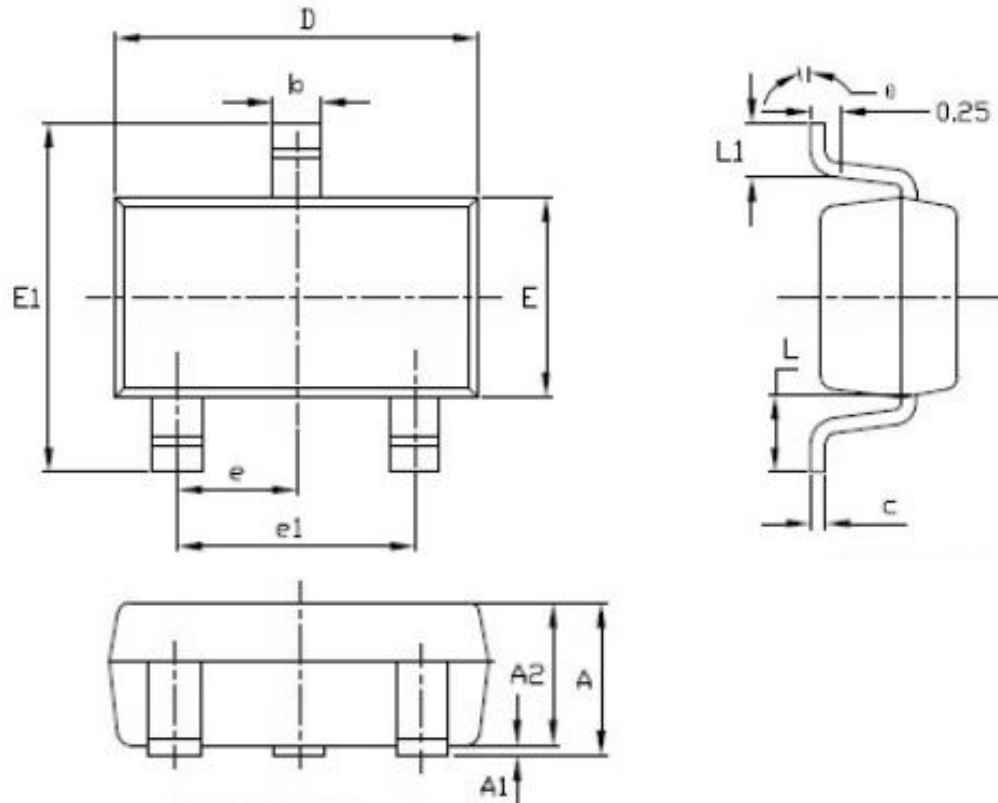
FS3N15=FS3N15

Electrical Characteristics 电特性

 (T_A=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

Characteristic 特性参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位
Drain-Source Breakdown Voltage 漏极-源极击穿电压(I _D =250uA, V _{GS} =0V)	BV _{DSS}	300	—	—	V
Gate Threshold Voltage 栅极开启电压(I _D =250uA, V _{GS} =V _{DS})	V _{GS(th)}	2	3	4	V
Zero Gate Voltage Drain Current 零栅压漏极电流(V _{GS} =0V, V _{DS} =300V)	I _{DSS}	—	—	1	uA
Gate Body Leakage 栅极漏电流(V _{GS} =±20V, V _{DS} =0V)	I _{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance 静态漏源导通电阻(I _D =0.5A, V _{GS} =10V) (I _D =0.5A, V _{GS} =4.5V)	R _{DS(on)}	—	2710 2770	4000 8000	mΩ
Diode Forward Voltage Drop 内附二极管正向压降(I _{SD} =0.5A, V _{GS} =0V)	V _{SD}	—	—	1.3	V
Input Capacitance 输入电容 (V _{GS} =0V, V _{DS} =50V, f=1MHz)	C _{ISS}	—	110	—	pF
Common Source Output Capacitance 共源输出电容(V _{GS} =0V, V _{DS} =50V, f=1MHz)	C _{OSS}	—	30	—	pF
Reverse Transfer Capacitance 反馈电容(V _{GS} =0V, V _{DS} =50V, f=1MHz)	C _{RSS}	—	2	—	pF
Total Gate Charge 栅极电荷密度 (V _{DS} =50V, I _D =0.5A, V _{GS} =10V)	Q _g	—	4	—	nC
Gate Source Charge 栅源电荷密度 (V _{DS} =50V, I _D =0.5A, V _{GS} =10V)	Q _{gs}	—	2	—	nC
Gate Drain Charge 栅漏电荷密度 (V _{DS} =50V, I _D =0.5A, V _{GS} =10V)	Q _{gd}	—	1	—	nC
Turn-ON Delay Time 开启延迟时间 (V _{DS} =50V I _D =0.5A, R _{GEN} =1Ω, V _{GS} =10V)	t _{d(on)}	—	15	—	ns
Turn-ON Rise Time 开启上升时间 (V _{DS} =50V I _D =0.5A, R _{GEN} =1Ω, V _{GS} =10V)	t _r	—	5	—	ns
Turn-OFF Delay Time 关断延迟时间 (V _{DS} =50V I _D =0.5A, R _{GEN} =1Ω, V _{GS} =10V)	t _{d(off)}	—	22	—	ns
Turn-OFF Fall Time 关断下降时间 (V _{DS} =50V I _D =0.5A, R _{GEN} =1Ω, V _{GS} =10V)	t _f	—	3	—	ns

■ Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.450	0.650	0.018	0.026
L1	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°