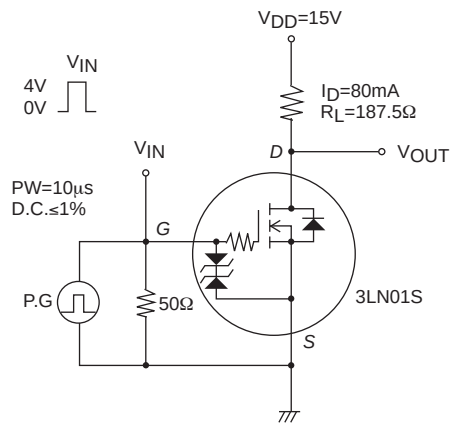


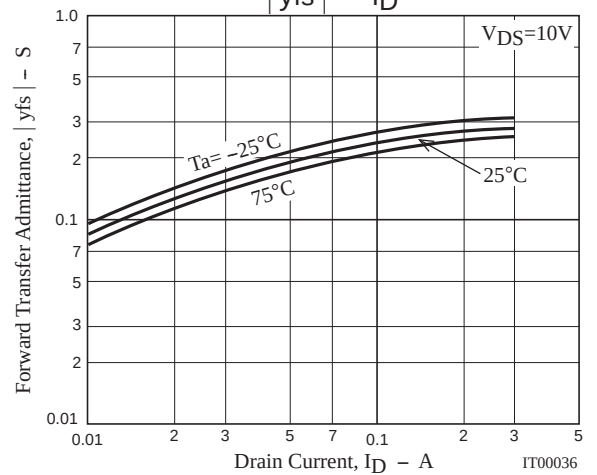
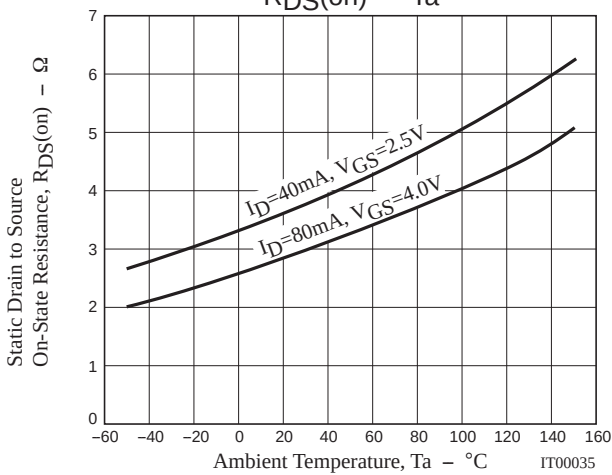
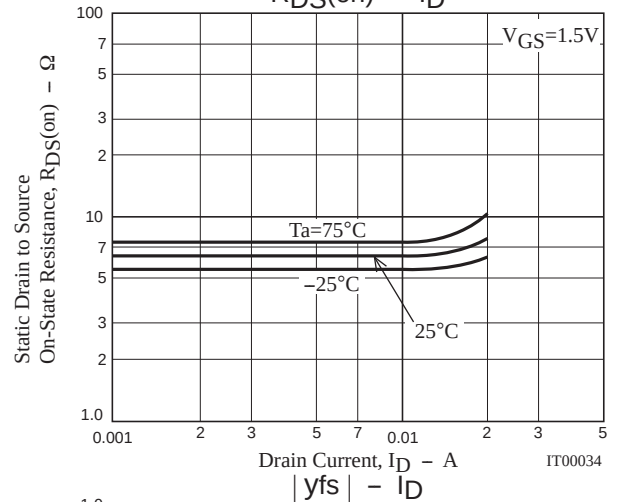
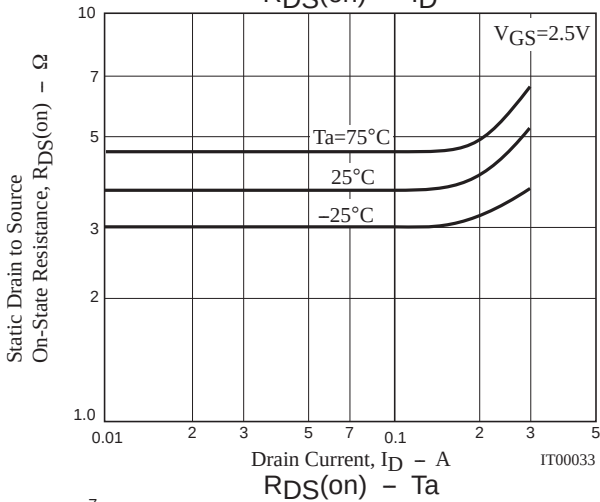
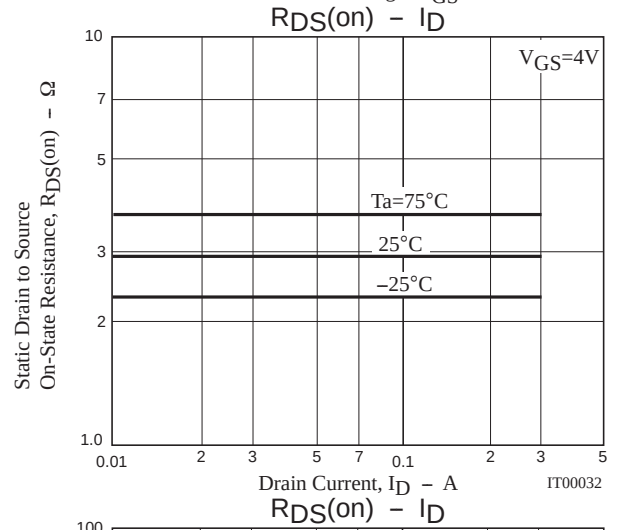
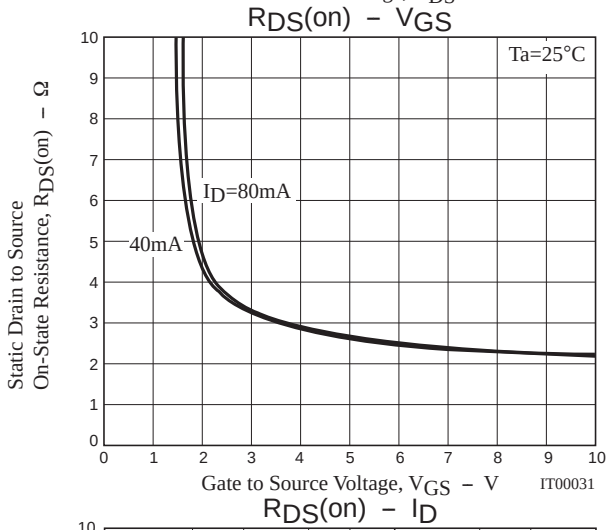
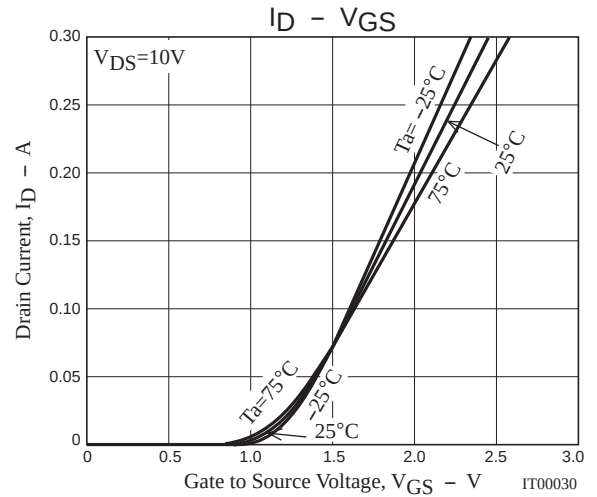
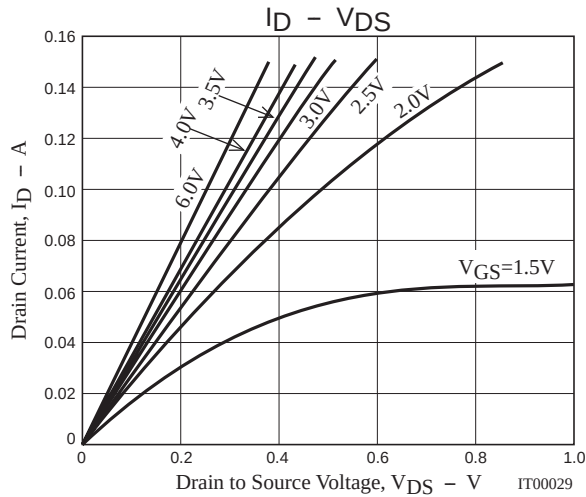
3LN01S

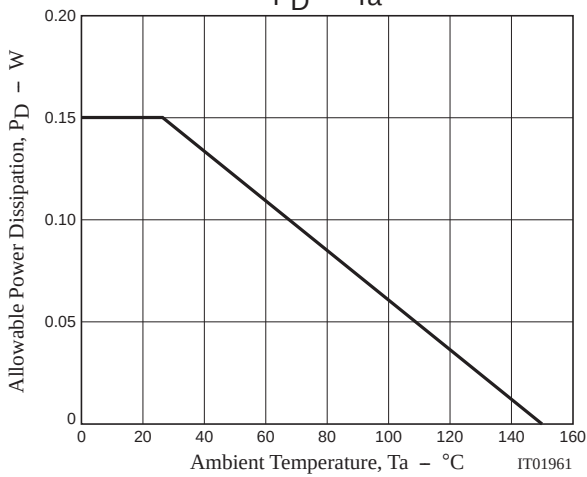
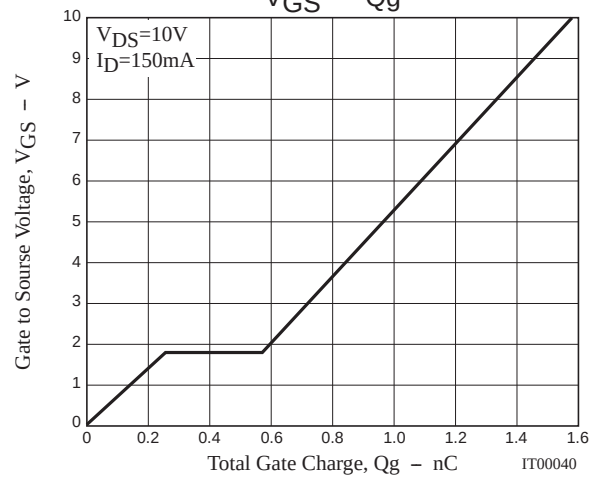
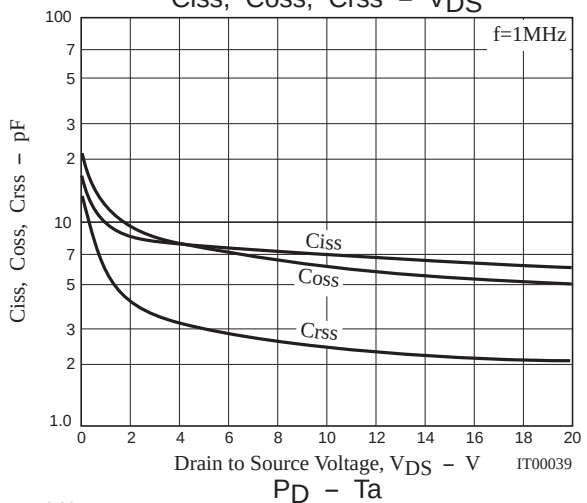
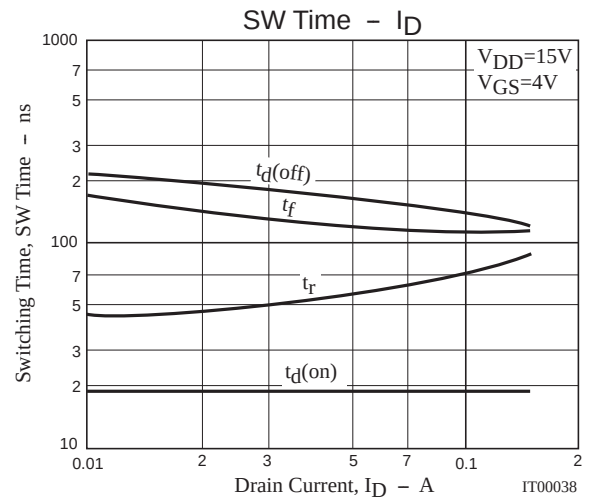
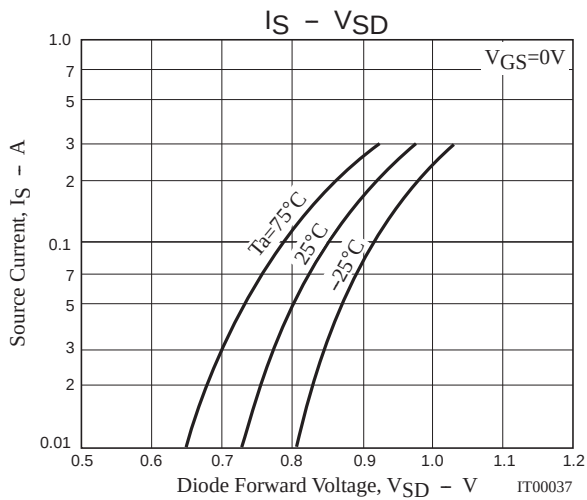
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=1mA, V_{GS}=0V$	30			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=30V, V_{GS}=0V$			1	μA
Gate to Source Leakage Current	I_{GSS}	$V_{GS}=\pm 8V, V_{DS}=0V$			± 10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=100\mu A$	0.4		1.3	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10V, I_D=80mA$	0.15	0.22		S
Static Drain to Source On-State Resistance	$R_{DS(on)1}$	$I_D=80mA, V_{GS}=4V$		2.9	3.7	Ω
	$R_{DS(on)2}$	$I_D=40mA, V_{GS}=2.5V$		3.7	5.2	Ω
	$R_{DS(on)3}$	$I_D=10mA, V_{GS}=1.5V$		6.4	12.8	Ω
Input Capacitance	C_{iss}	$V_{DS}=10V, f=1MHz$		7.0		pF
Output Capacitance	C_{oss}			5.9		pF
Reverse Transfer Capacitance	C_{rss}			2.3		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		19		ns
Rise Time	t_r			65		ns
Turn-OFF Delay Time	$t_{d(off)}$			155		ns
Fall Time	t_f			120		ns
Total Gate Charge	Q_g	$V_{DS}=10V, V_{GS}=10V, I_D=150mA$		1.58		nC
Gate to Source Charge	Q_{gs}			0.26		nC
Gate to Drain "Miller" Charge	Q_{gd}			0.31		nC
Diode Forward Voltage	V_{SD}	$I_S=150mA, V_{GS}=0V$		0.87	1.2	V

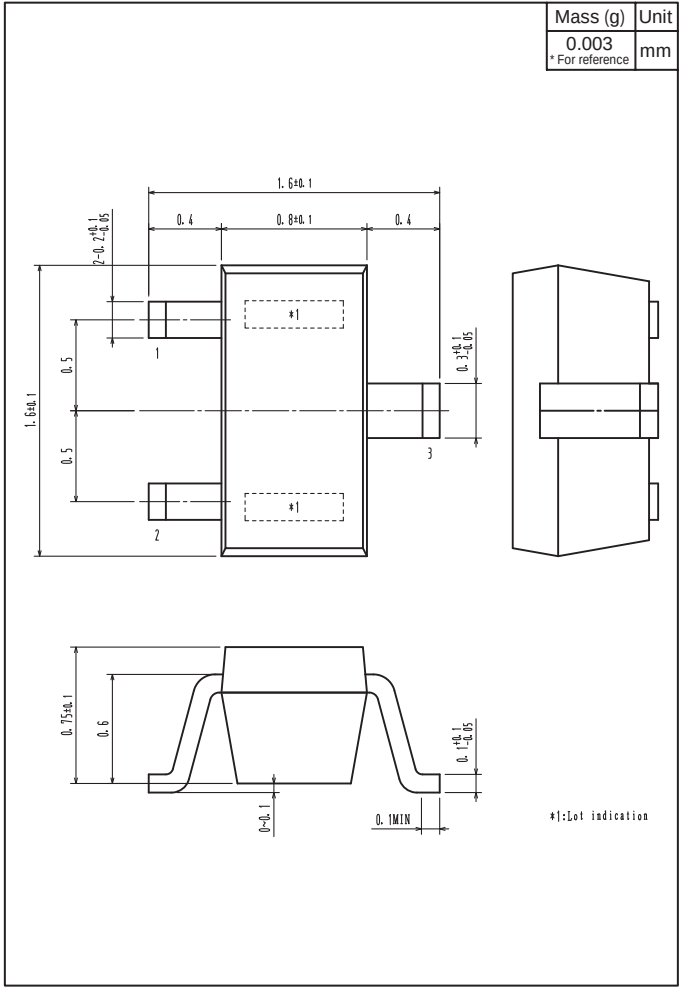
Switching Time Test Circuit



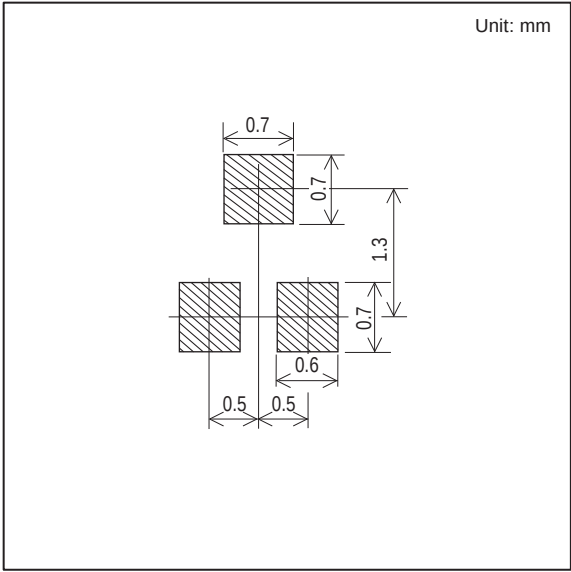




Outline Drawing
3LN01S-TL-E



Land Pattern Example



Note on usage : Since the 3LN01S is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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