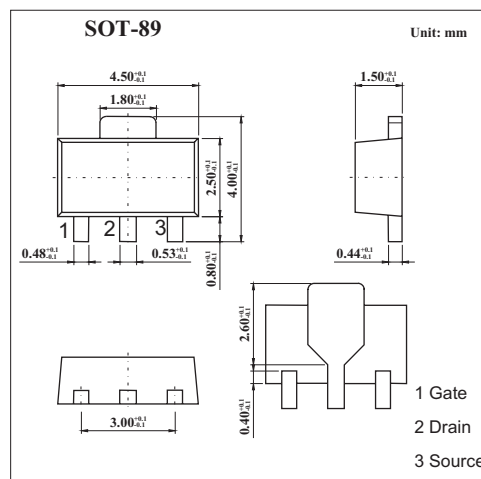


■ Features

- Directly driven by Ics having a 5V power supply.
- Has low on-state resistance.

$R_{DS(on)}=6.0 \Omega \text{ MAX.}@V_{GS}=4.0V, I_D=0.3A$

$R_{DS(on)}=5.0 \Omega \text{ MAX.}@V_{GS}=10V, I_D=0.3A$



■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Drain to source voltage	$V_{DS}$	100	V
Gate to source voltage	$V_{GS}$	$\pm 20$	V
Drain current (DC)	$I_D$	$\pm 500$	mA
Drain current(pulse) *	$I_D$	$\pm 1.0$	A
Power dissipation	$P_D$	2.0	W
Channel temperature	$T_{ch}$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

\*  $PW \leq 10\text{ms}$ , duty cycle  $\leq 5\%$

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit	
Drain cut-off current	$I_{DSS}$	$V_{DS}=100V, V_{GS}=0$			1.0	$\mu\text{A}$	
Gate leakage current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0$			$\pm 10$	$\mu\text{A}$	
Gate to source cutoff voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1\text{mA}$	0.8	1.2	2.0	V	
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=10V, I_D=0.5A$	400	570		ms	
Drain to source on-state resistance	$R_{DS(on)}$	$V_{GS}=4.0V, I_D=0.3A$		4.0	6.0	$\Omega$	
		$V_{GS}=10V, I_D=0.3A$		3.4	5.0	$\Omega$	
Input capacitance	$C_{iss}$	$V_{DS}=10V, V_{GS}=0, f=1\text{MHZ}$ $I_D=0.3A, V_{GS(on)}=4V, R_L=33\Omega, V_{DD}=10V, R_G=10\Omega$		55		pF	
Output capacitance	$C_{oss}$			25		pF	
Reverse transfer capacitance	$C_{rss}$			4.5		pF	
Turn-on delay time	$t_{d(on)}$				60		ns
Rise time	$t_r$				140		ns
Turn-off delay time	$t_{d(off)}$				140		ns
Fall time	$t_f$				90		ns

■ Marking

Marking	NP
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