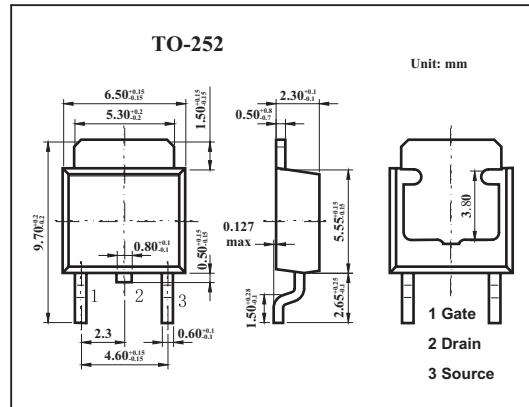
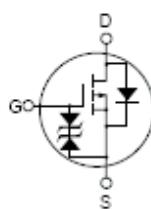


Hight Speed Power Switching

2SJ530S

■ Features

- Low on-resistance
 $R_{DS(on)} = 0.08 \Omega$ typ.
- High speed switching
- 4V gate drive devices.



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

Parameter	Symbol	Rating	Unit
Drain to source voltage	V_{DSS}	-60	V
Gate to source voltage	V_{GSS}	± 20	V
Drain current (DC)	I_D	-15	A
Drain current(pulse) *	I_D	-60	A
Power dissipation	P_D	30	W
Channel temperature	T_{ch}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

* $PW \leq 10 \mu\text{s}$, duty cycle $\leq 1\%$

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain to source breakdown voltage	V_{DSS}	$I_D=-10\text{mA}, V_{GS}=0$	-60			V
Gate to source breakdown voltage	V_{GSS}	$I_G=\pm 100 \mu\text{A}, V_{DS}=0$	± 20			V
Drain cut-off current	I_{DSS}	$V_{DS}=-60\text{V}, V_{GS}=0$			-10	μA
Gate leakage current	I_{GSS}	$V_{GS}=\pm 16\text{V}, V_{DS}=0$			± 10	μA
Gate to source cutoff voltage	$V_{GS(off)}$	$V_{DS}=-10\text{V}, I_D=-1\text{mA}$	-1.0		-2.0	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=-10\text{V}, I_D=-8\text{A}$	6.5	11		S
Drain to source on-state resistance	$R_{DS(on)}$	$V_{GS}=-10\text{V}, I_D=-8\text{A}$		0.08	0.10	Ω
		$V_{GS}=-4.0\text{V}, I_D=-8\text{A}$		0.11	0.16	Ω
Input capacitance	C_{iss}	$V_{DS}=-10\text{V}, V_{GS}=0, f=1\text{MHz}$		850		pF
Output capacitance	C_{oss}			420		pF
Reverse transfer capacitance	C_{rss}			110		pF
Turn-on delay time	$t_{d(on)}$	$V_{GS(on)}=-10\text{V}, I_D=-8\text{A}, R_L=3.75\Omega$		12		ns
Rise time	t_r			75		ns
Turn-off delay time	$t_{d(off)}$			125		ns
Fall time	t_f			75		ns