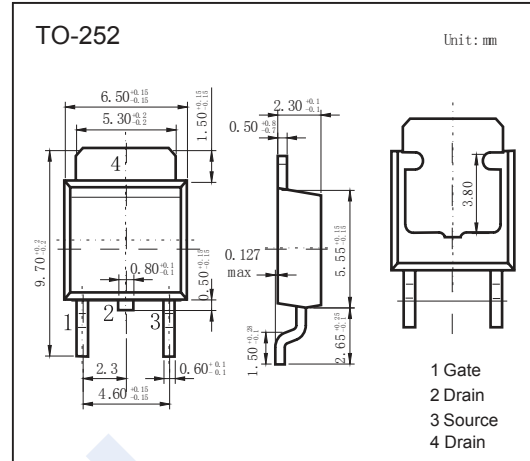
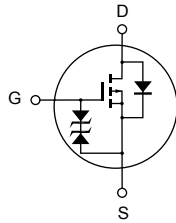


## P-Channel MOSFET

### 2SJ130S

#### ■ Features

- $V_{DS} = -300V$
- $I_D = -1 A$  ( $V_{GS} = -10V$ )
- $R_{DS(ON)} < 8.5 \Omega$  ( $V_{GS} = -10V$ )
- High speed switching
- Low drive current



#### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

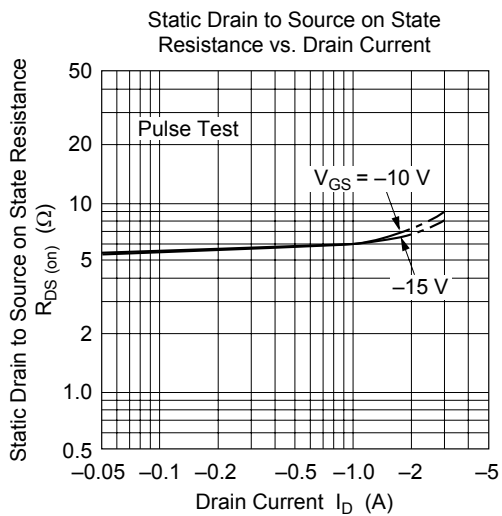
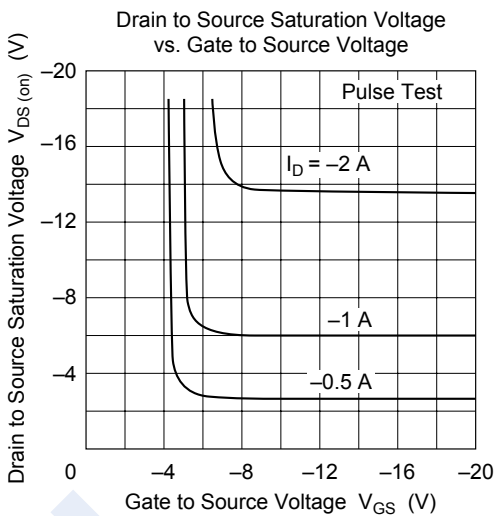
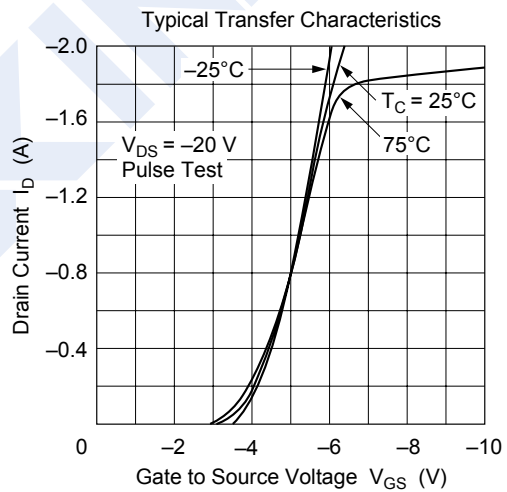
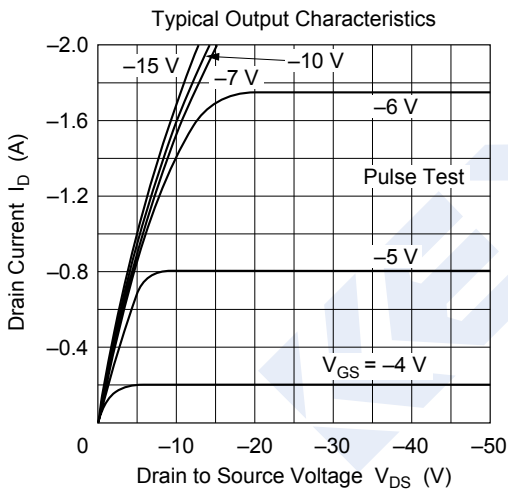
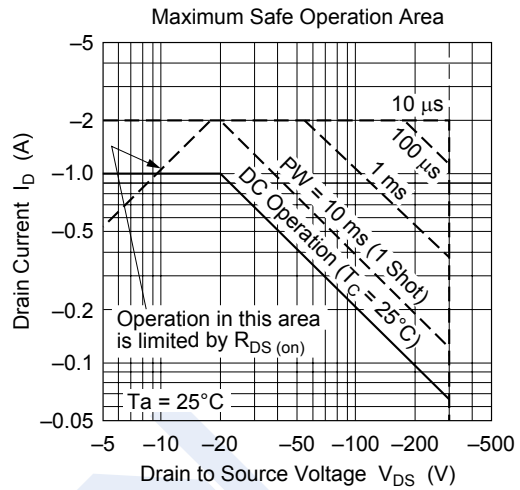
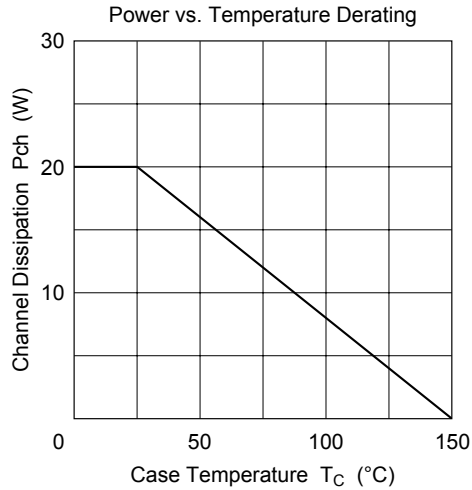
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	-300	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	
Continuous Drain Current	$I_D$	-1	A
Pulsed Drain Current	$I_{DM}$	-2	
Body to Drain Diode Reverse Drain Current	$I_{DR}$	-1	
Power Dissipation $T_c = 25^\circ C$	$P_D$	20	W
Junction Temperature	$T_J$	150	$^\circ C$
Junction Storage Temperature Range	$T_{stg}$	-55 to 150	

#### ■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$V_{DSS}$	$I_D = -10 \text{ mA}, V_{GS} = 0V$	-300			V
Gate to Source Breakdown Voltage	$V_{GSS}$	$I_G = \pm 100 \mu A, V_{DS} = 0V$	$\pm 20$			
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = -240V, V_{GS} = 0V$			-100	$\mu A$
Gate-Body leakage current	$I_{GSS}$	$V_{DS} = 0V, V_{GS} = \pm 16V$			$\pm 10$	$\mu A$
Gate to Source Cutoff Voltage	$V_{GS(off)}$	$V_{GS} = -10V, I_D = -1mA$	-2		-4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -10V, I_D = -0.5A$			8.5	$\Omega$
Forward Transconductance	$g_{FS}$	$V_{DS} = -20V, I_D = -0.5A$	0.25	0.4		S
Input Capacitance	$C_{iss}$	$V_{GS} = 0V, V_{DS} = -10V, f = 1MHz$		235		pF
Output Capacitance	$C_{oss}$				65	
Reverse Transfer Capacitance	$C_{rss}$				16	
Turn-On DelayTime	$t_{d(on)}$	$V_{GS} = -10V, I_D = -0.5A, R_L = 60 \Omega$		10		ns
Turn-On Rise Time	$t_r$				25	
Turn-Off DelayTime	$t_{d(off)}$				35	
Turn-Off Fall Time	$t_f$				45	
Body Diode Reverse Recovery Time	$t_{rr}$	$I_F = -1A, V_{GS} = 0, di/dt = 50A/\mu s$		200		
Diode Forward Voltage	$V_{SD}$	$I_S = -1A, V_{GS} = 0V$		-0.9		V

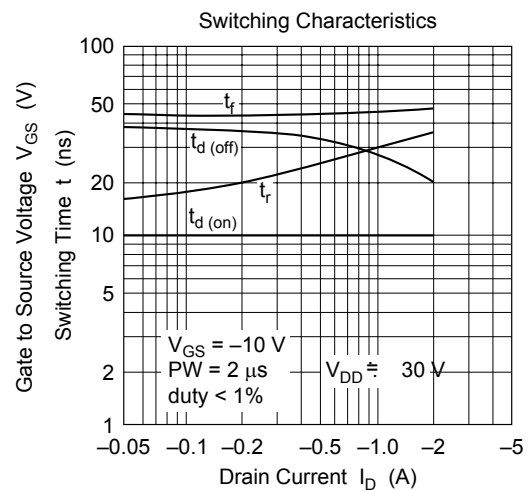
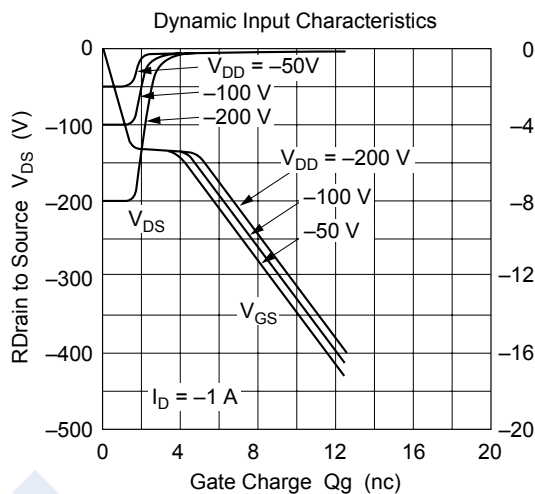
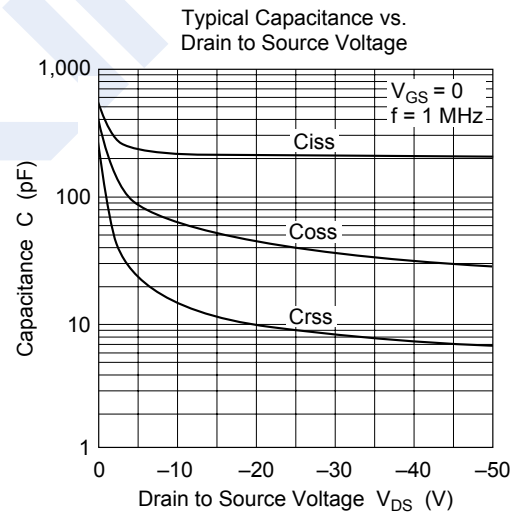
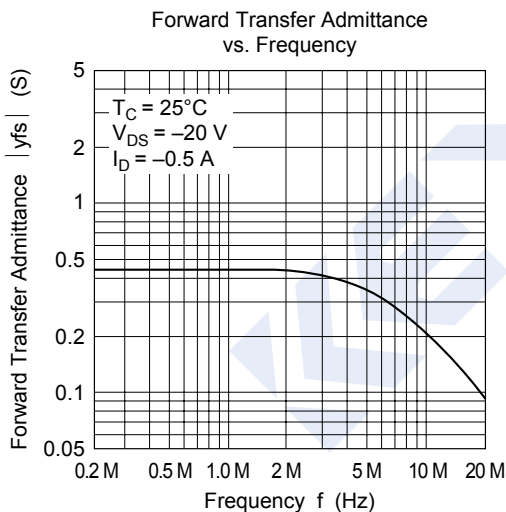
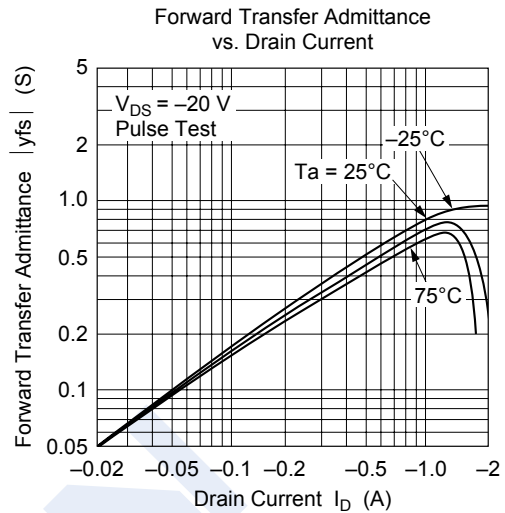
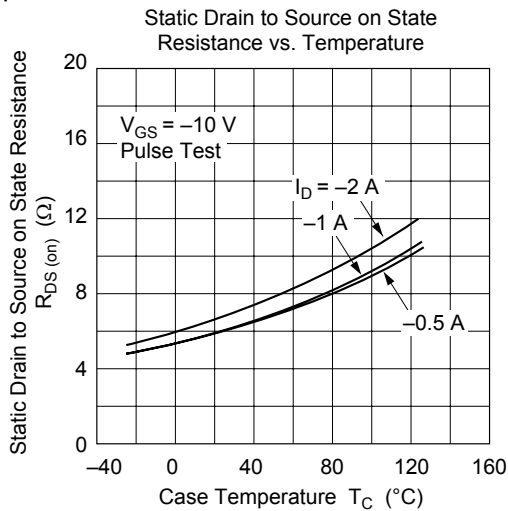
## P-Channel MOSFET 2SJ130S

■ Typical Characteristics



## P-Channel MOSFET 2SJ130S

### Typical Characteristics



## P-Channel MOSFET 2SJ130S

■ Typical Characteristics

