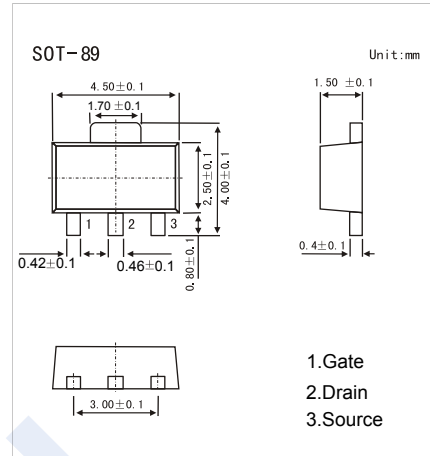


P-Channel MOSFET

2SJ179

■ Features

- V_{DS} (V) $\approx$ -30V
- I_D $\approx$ -1.5 A (V_{GS} $\approx$ -10V)
- $R_{DS(ON)} < 1 \Omega$ (V_{GS} $\approx$ -10V)
- $R_{DS(ON)} < 1.5 \Omega$ (V_{GS} $\approx$ -4V)



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	-1.5	A
Pulsed Drain Current (Note.1)	I_{DM}	-3	
Power Dissipation	P_D	2	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Junction Storage Temperature Range	T_{stg}	-55 to 150	

Note.1: $PW \leq 10\text{ms}$, Duty Cycle $\leq 50\%$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D = -250 \mu\text{A}$, $V_{GS} = 0\text{V}$	-30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -30\text{V}$, $V_{GS} = 0\text{V}$			-10	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0\text{V}$, $V_{GS} = \pm 20\text{V}$			± 100	nA
Gate Cut off Voltage	$V_{GS(off)}$	$V_{DS} = -10\text{V}$, $I_D = -1\text{mA}$	-1		-3	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -4\text{V}$, $I_D = -500\text{mA}$			1.5	Ω
		$V_{GS} = -10\text{V}$, $I_D = -500\text{mA}$			1	
Forward Transconductance	g_{FS}	$V_{DS} = -10\text{V}$, $I_D = -500\text{mA}$	0.4			S
Input Capacitance	C_{iss}	$V_{GS} = 0\text{V}$, $V_{DS} = -10\text{V}$, $f = 1\text{MHz}$		210		pF
Output Capacitance	C_{oss}			130		
Reverse Transfer Capacitance	C_{rss}			3		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS(on)} = -10\text{V}$, $V_{DS} = -25\text{V}$, $I_D = -0.5\text{A}$, $R_L = 50 \Omega$, $R_{GEN} = 10 \Omega$		35		ns
Turn-On Rise Time	t_r			70		
Turn-Off Delay Time	$t_{d(off)}$			380		
Turn-Off Fall Time	t_f			200		

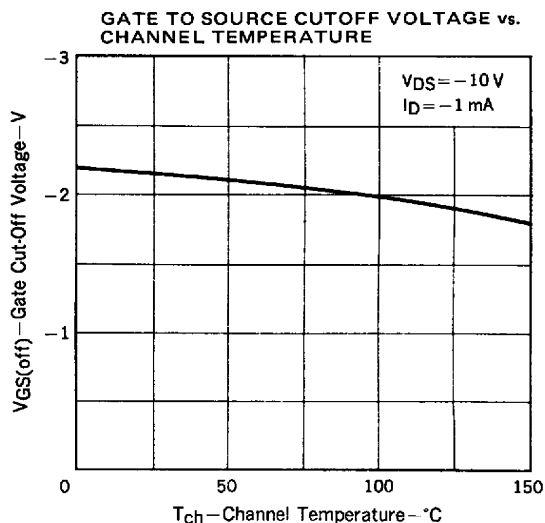
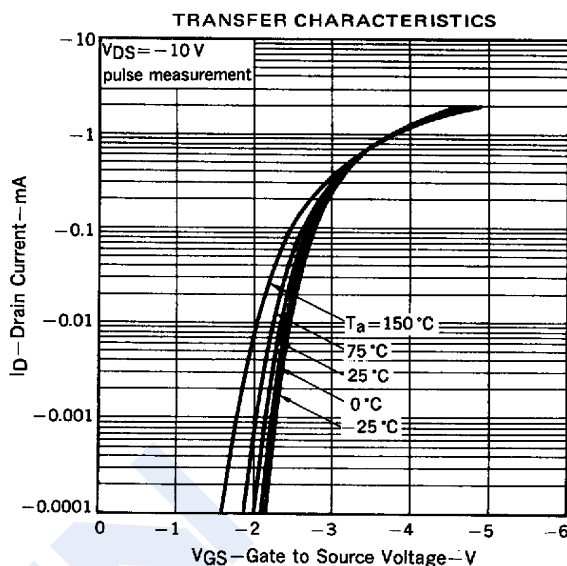
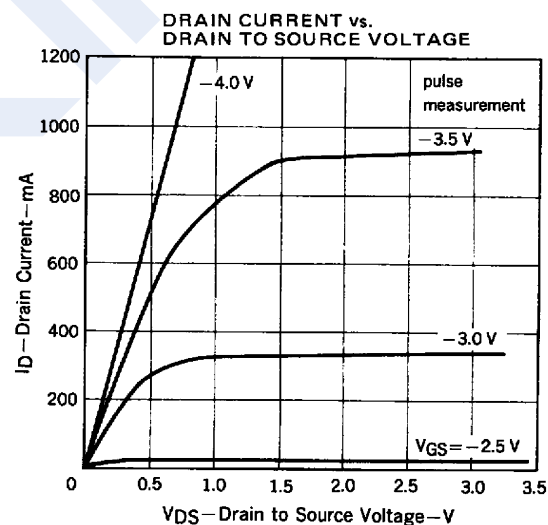
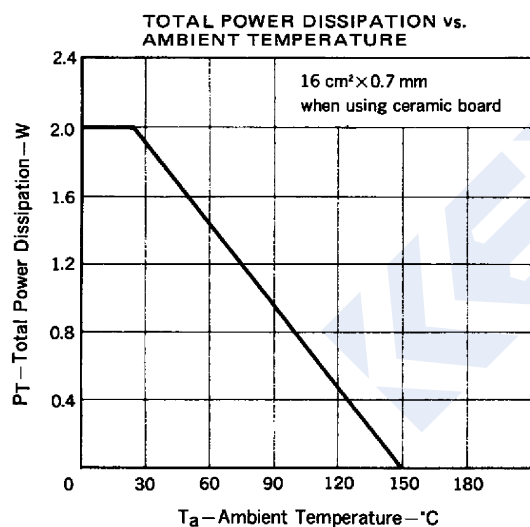
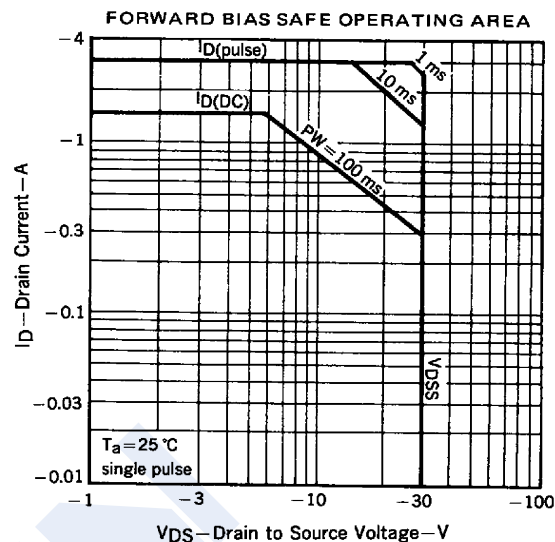
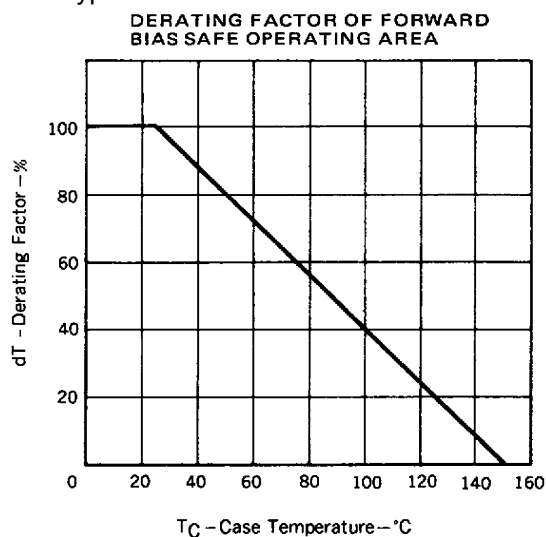
■ Marking

Marking	PA
---------	----

P-Channel MOSFET

2SJ179

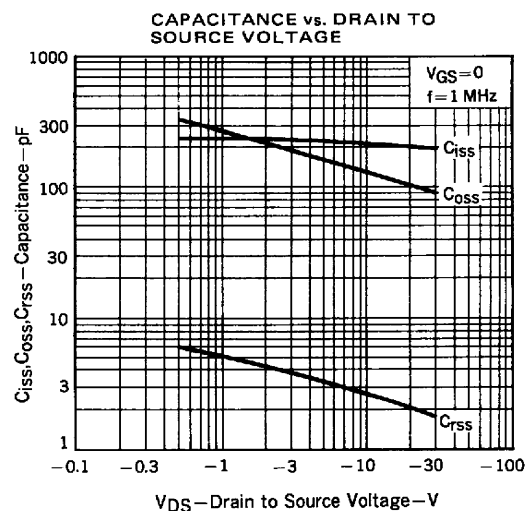
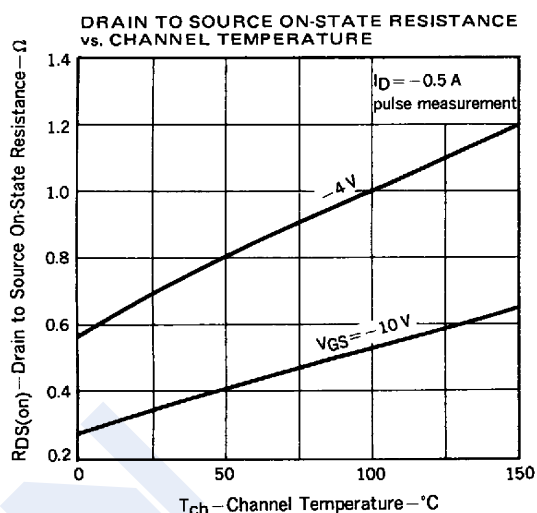
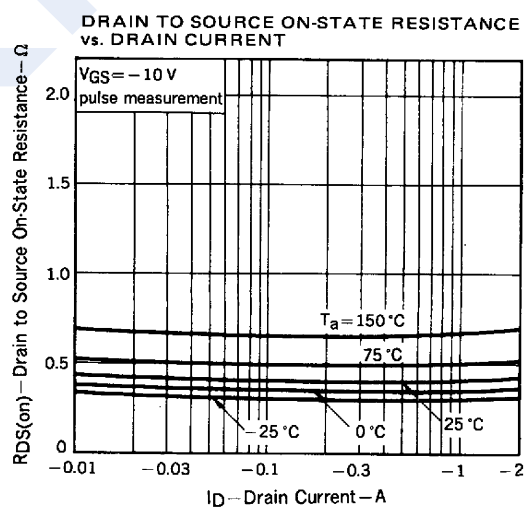
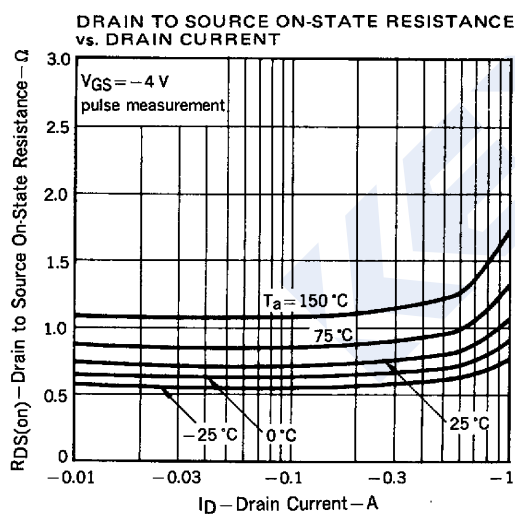
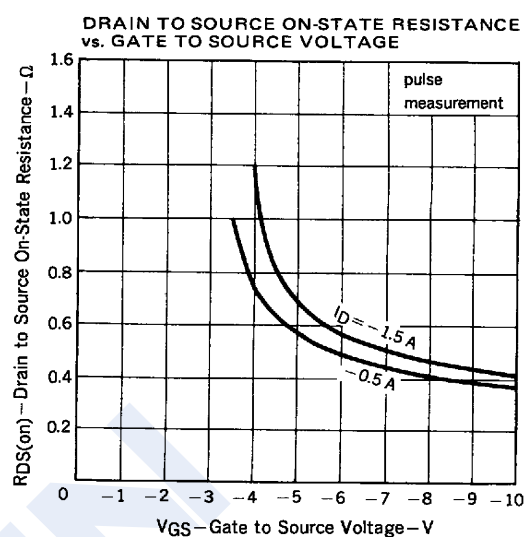
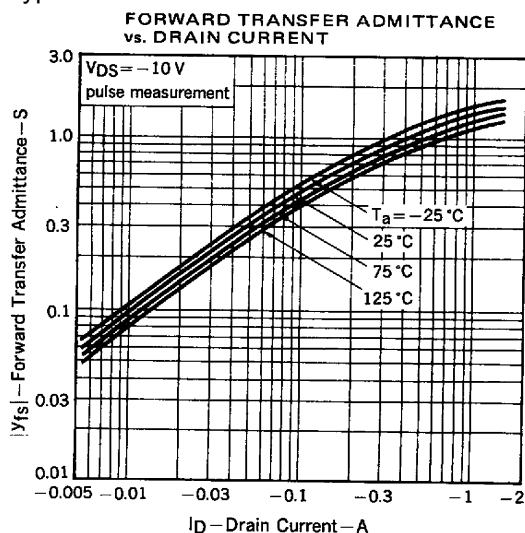
■ Typical Characteristics



P-Channel MOSFET

2SJ179

■ Typical Characteristics



P-Channel MOSFET

2SJ179

■ Typical Characteristics

