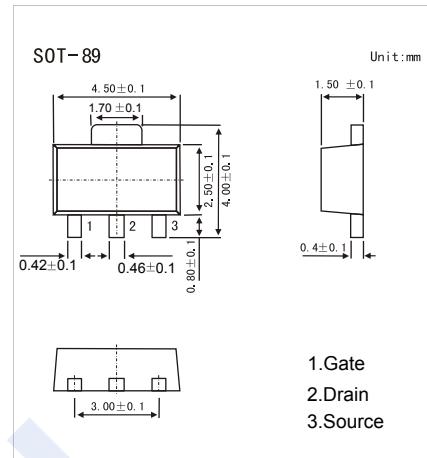


P-Channel MOSFET

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■ Features

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



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

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	$^\circ C$
Junction Storage Temperature Range	T_{Stg}	-55 to 150	

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

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

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

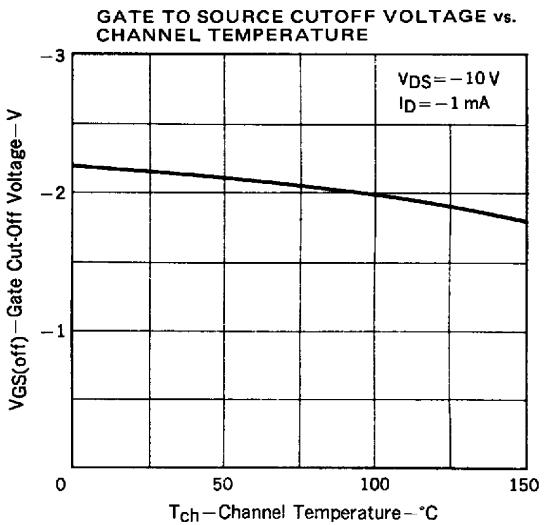
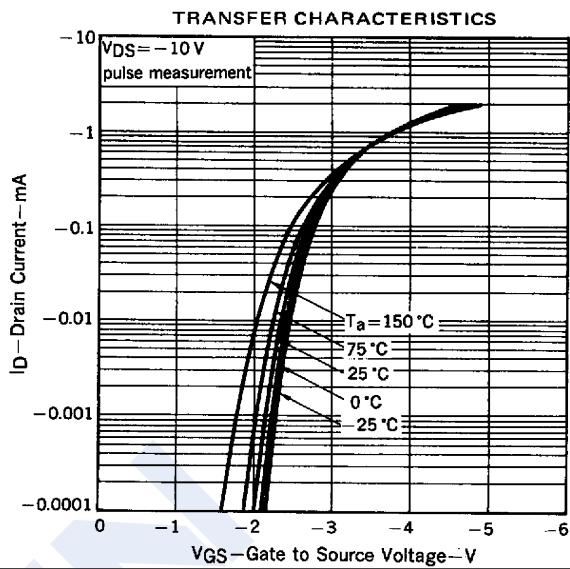
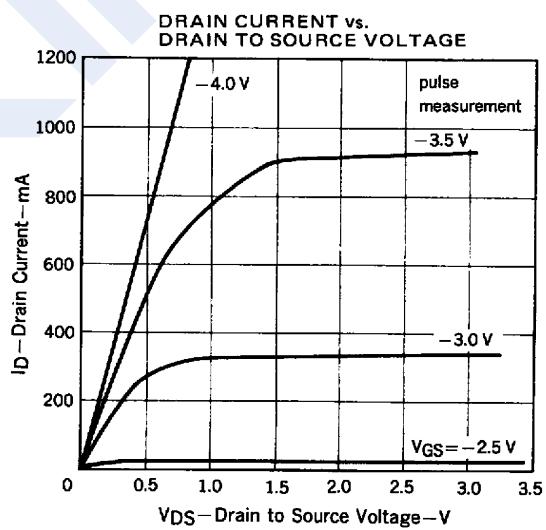
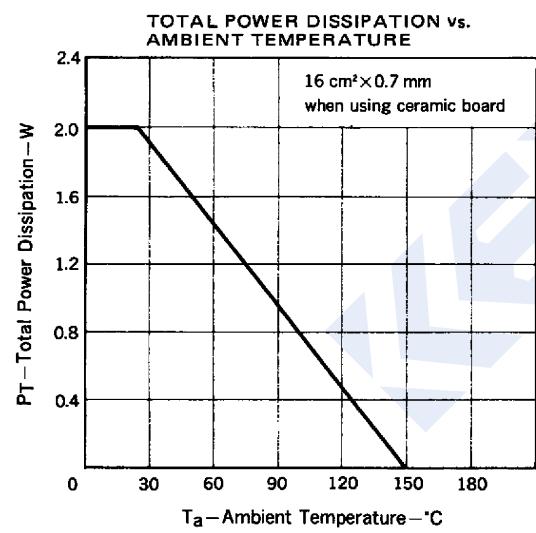
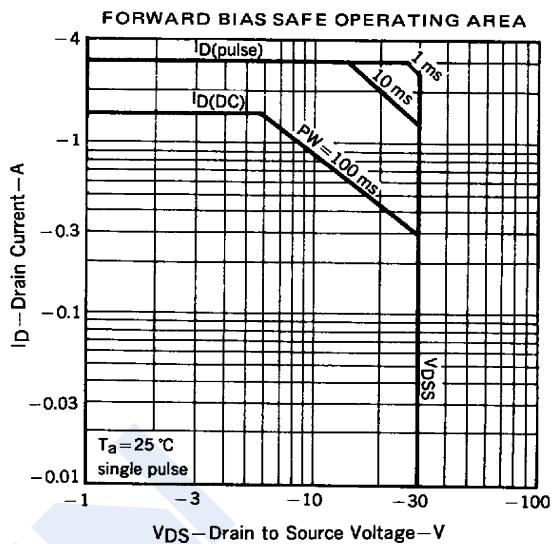
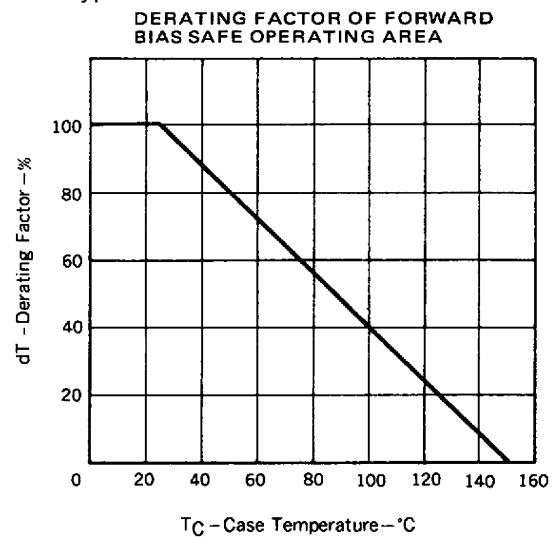
■ Marking

Marking	PA
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P-Channel MOSFET

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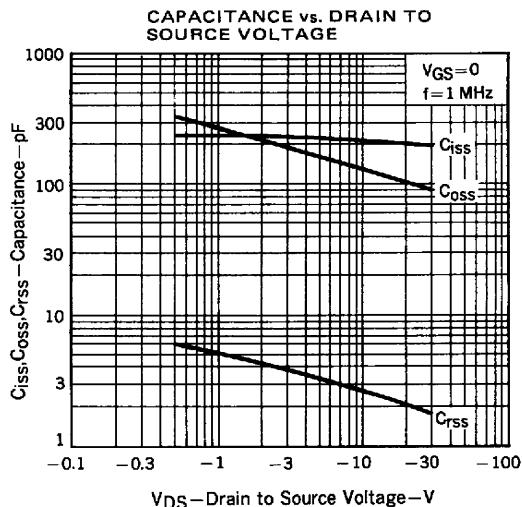
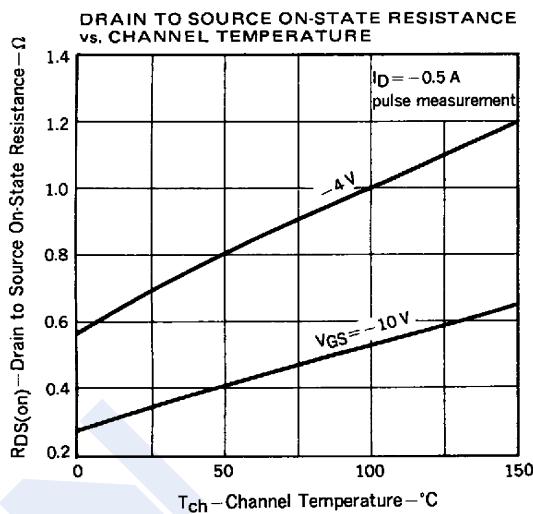
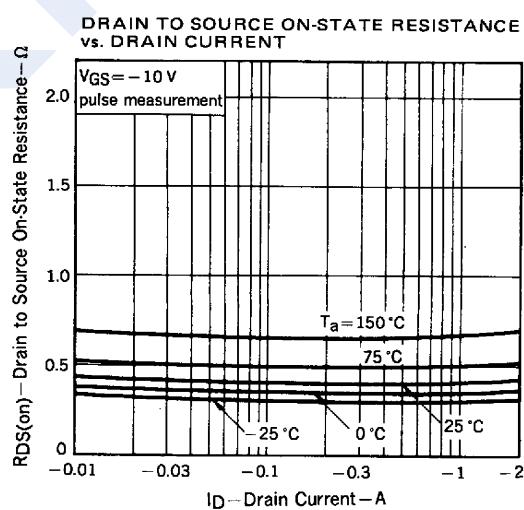
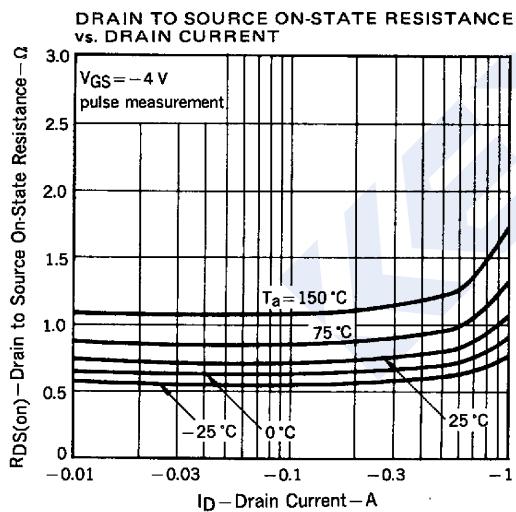
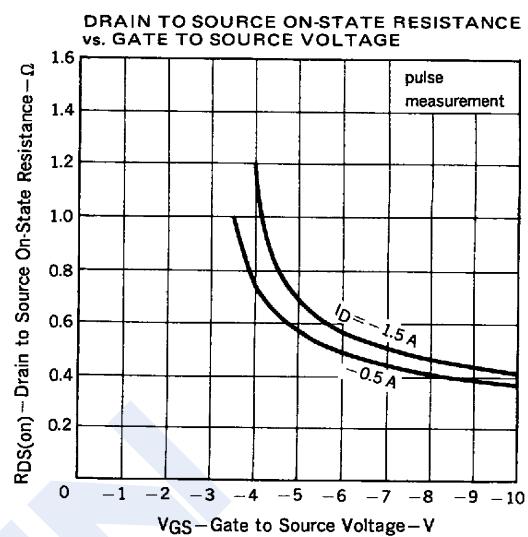
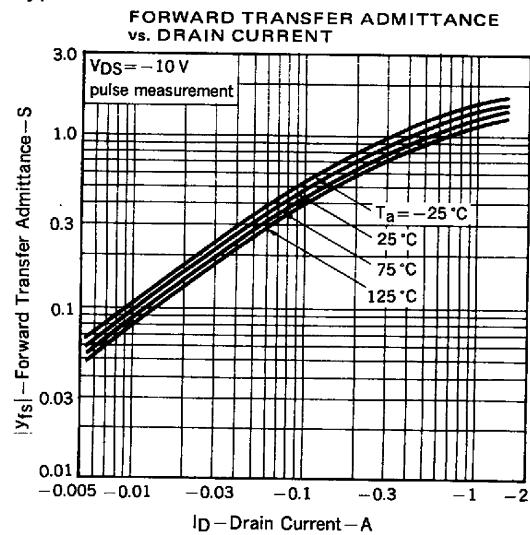
■ Typical Characteristics



P-Channel MOSFET

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■ Typical Characteristics



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■ Typical Characteristics

