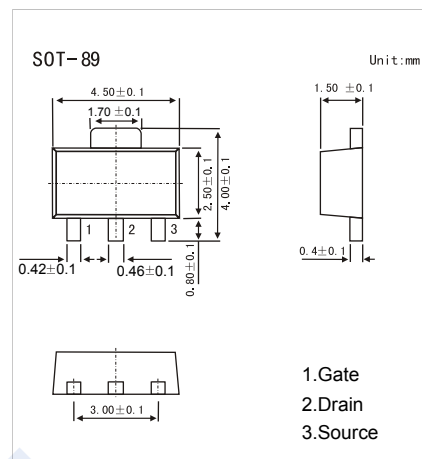
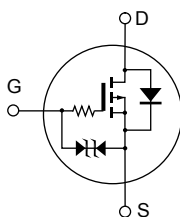


P-Channel MOSFET

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■ Features

- $V_{DS} (V) = -12V$
- $I_D = -2 A$
- $R_{DS(ON)} < 0.8 \Omega$ ($V_{GS} = -4V$)
- $R_{DS(ON)} < 0.9 \Omega$ ($V_{GS} = -2.5V$)



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-12	V
Gate-Source Voltage	V_{GS}	± 7	
Continuous Drain Current	I_D	-2	A
Pulsed Drain Current (Note.1)	I_{DM}	-4	
Power Dissipation	P_D	1	W
Junction Temperature	T_J	150	$^\circ C$
Junction Storage Temperature Range	T_{stg}	-55 to 150	

Note.1: $PW \leq 10 \mu s$, duty cycle $\leq 10\%$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D = -1mA, V_{GS} = 0V$	-12			V
Gate-Source Breakdown Voltage	V_{GSS}	$I_G = \pm 10 \mu A, V_{DS} = 0V$	± 7			
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -8V, V_{GS} = 0V$			-1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V, V_{GS} = \pm 6V$			± 5	μA
Gate to Source Cutoff Voltage	$V_{GS(off)}$	$V_{GS} = -5V, I_D = -100\mu A$	-0.4		-1.4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -4V, I_D = -1A$			0.8	Ω
		$V_{GS} = -2.5V, I_D = -0.5A$			0.9	
Forward Transconductance	g_{FS}	$V_{DS} = -5V, I_D = -1A$		1.8		S
Input Capacitance	C_{iss}	$V_{GS} = 0V, V_{DS} = -5V, f = 1MHz$		130		pF
Output Capacitance	C_{oss}			50		
Reverse Transfer Capacitance	C_{rss}			260		
Turn-On DelayTime	$t_{d(on)}$	$V_{GS(on)} = -4V, I_D = -0.2A, R_L = 51 \Omega$		365		ns
Turn-Off DelayTime	$t_{d(off)}$			1450		
Diode Forward Voltage	V_{SD}	$I_S = -4A, V_{GS} = 0V$			-7	V

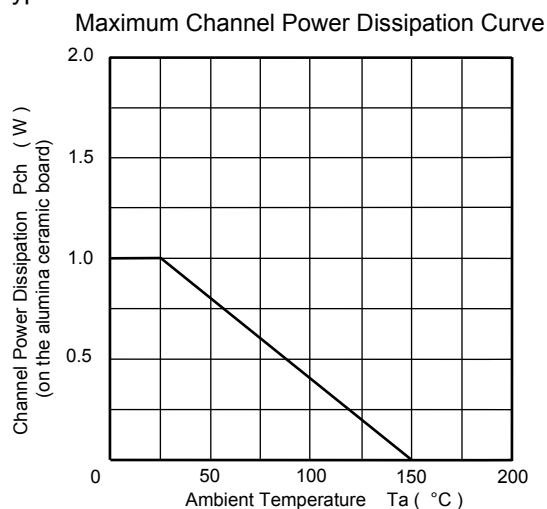
■ Marking

Marking	JY
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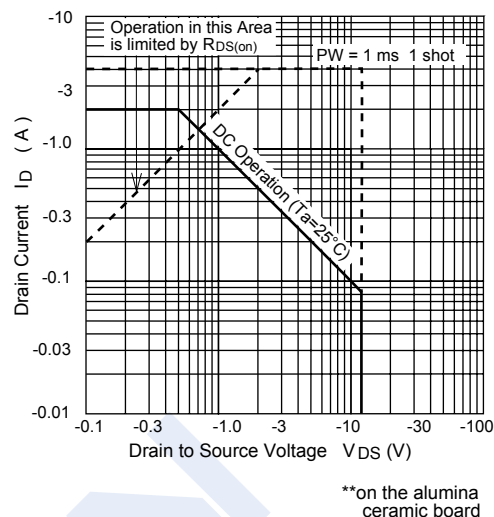
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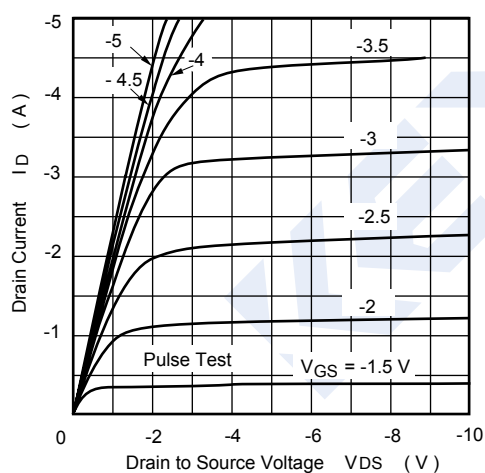
■ Typical Characteristics



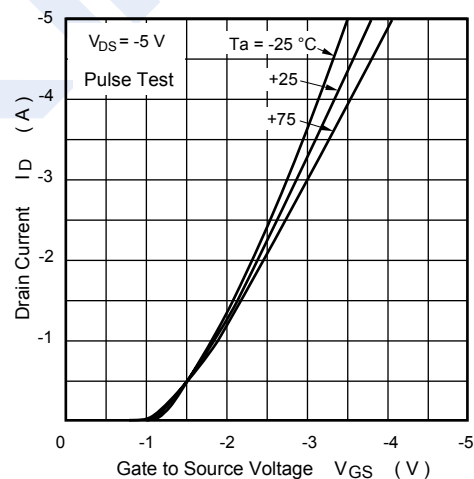
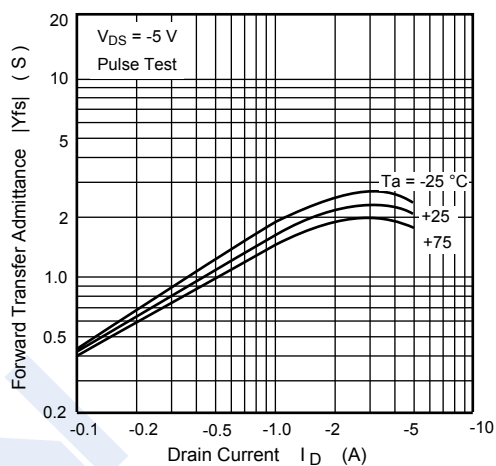
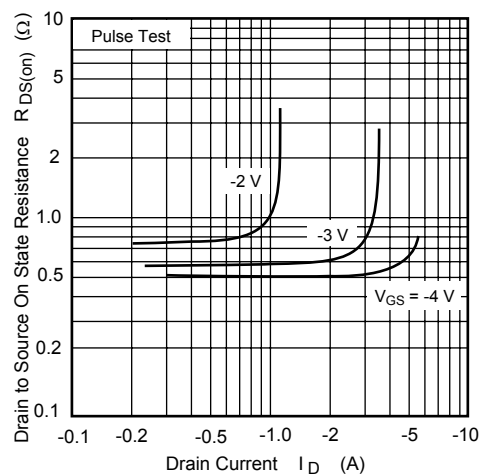
Maximum Safe Operation Area



Typical Output Characteristics



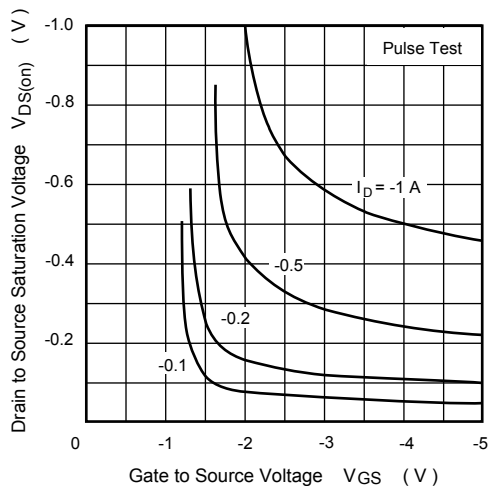
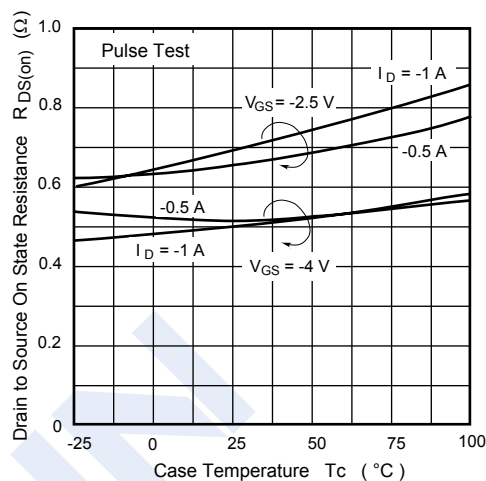
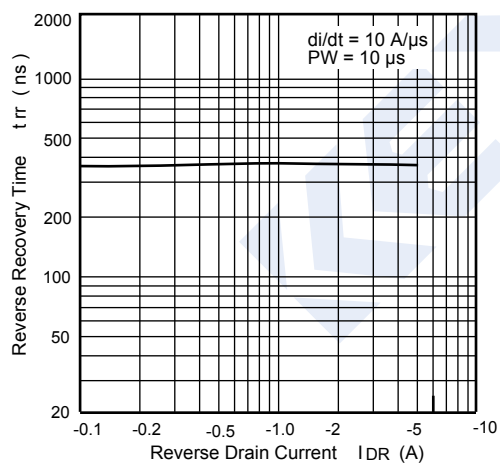
Typical Forward Transfer Characteristics

Forward Transfer Admittance vs.
Drain CurrentDrain to Source on State Resistance vs.
Drain Current

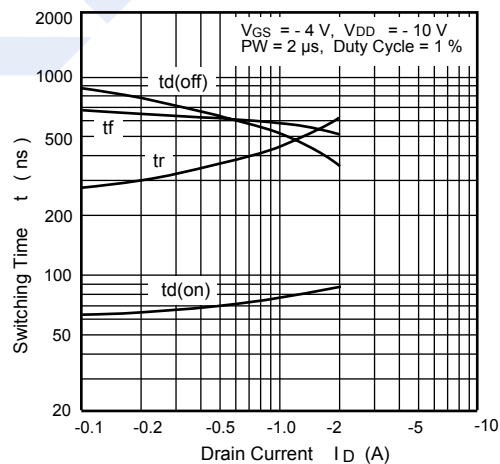
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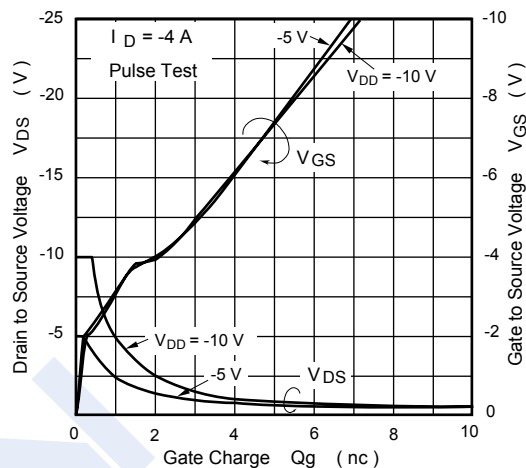
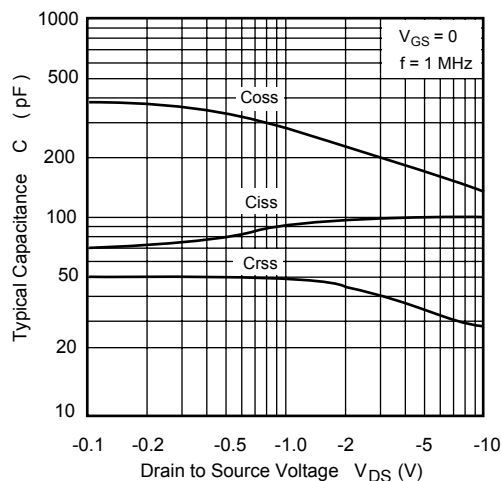
■ Typical Characteristics

Drain to Source Saturation Voltage vs.
Gate to Source VoltageDrain to Source on State Resistance vs.
Case TemperatureReverse Recovery Time vs.
Reverse Drain Current

Switching Time vs. Drain Current



Dynamic Input Characteristics

Typical Capacitance vs.
Drain to Source Voltage

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■ Typical Characteristics

Reverse Drain Current vs.
Source to Drain Voltage

