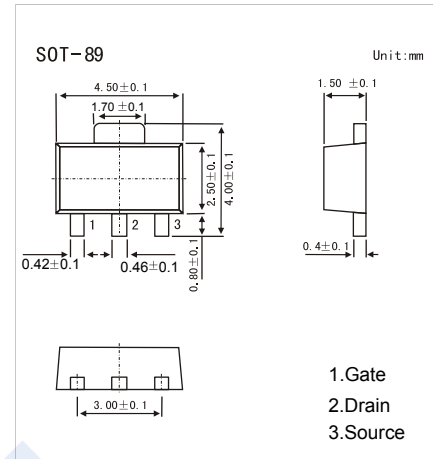
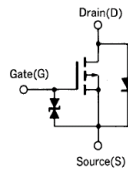


P-Channel MOSFET

2SJ197

■ Features

- $V_{DS} = -60V$
- $I_D = -1.5 A$
- $R_{DS(ON)} < 1 \Omega$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 1.5 \Omega$ ($V_{GS} = -4V$)
- Complementary to 2SK1483



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-60	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}	$I_D = -250 \mu A$, $V_{GS} = 0V$	-60			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -60V$, $V_{GS} = 0V$			-10	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$, $V_{GS} = \pm 20V$			± 10	μA
Gate Cut off Voltage	$V_{GS(off)}$	$V_{DS} = -10V$, $I_D = -1mA$	-1		-3	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -10V$, $I_D = -0.5A$			1.5	Ω
		$V_{GS} = -4V$, $I_D = -0.5A$			1	
Forward Transconductance	g_{FS}	$V_{GS} = -10V$, $I_D = -0.5A$	0.4	1		S
Input Capacitance	C_{iss}	$V_{GS} = 0V$, $V_{DS} = -10V$, $f = 1MHz$		220		pF
Output Capacitance	C_{oss}			125		
Reverse Transfer Capacitance	C_{rss}			17		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS(on)} = -10V$, $V_{DS} = -25V$, $I_D = -0.5A$, $R_L = 50 \Omega$, $R_{GEN} = 10 \Omega$		45		ns
Turn-On Rise Time	t_r			70		
Turn-Off Delay Time	$t_{d(off)}$			380		
Turn-Off Fall Time	t_f			170		

■ Marking

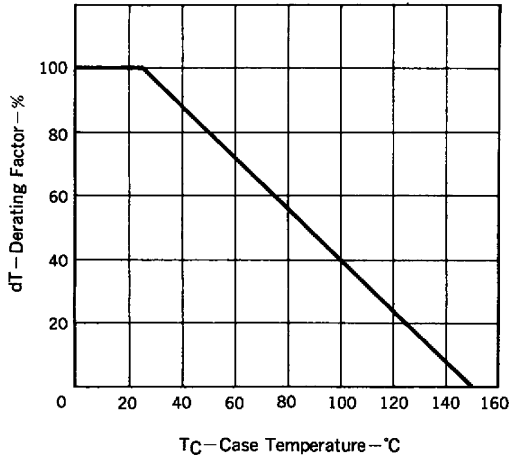
Marking	PB

P-Channel MOSFET

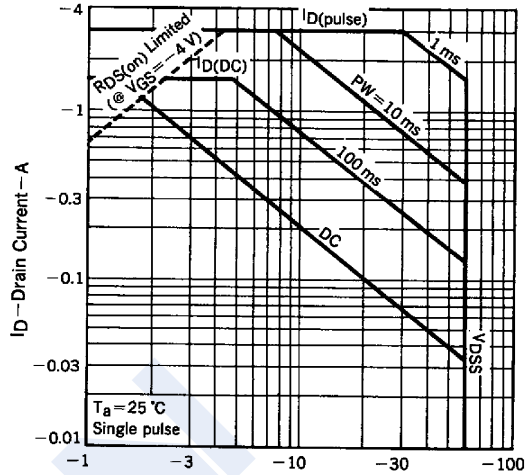
2SJ197

Typical Characteristics

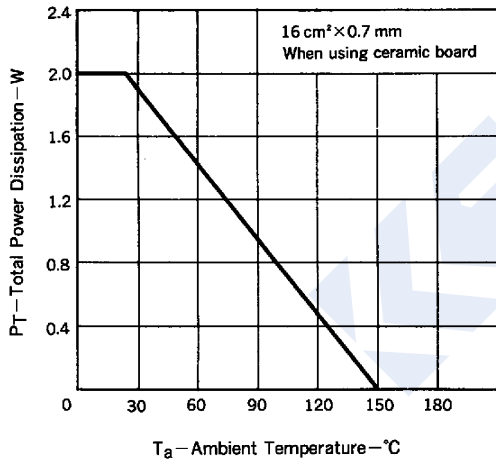
DERATING FACTOR OF FORWARD BIAS SAFE OPERATING AREA



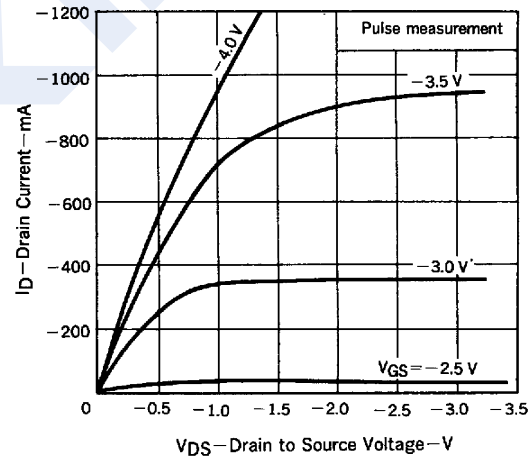
FORWARD BIAS SAFE OPERATING AREA



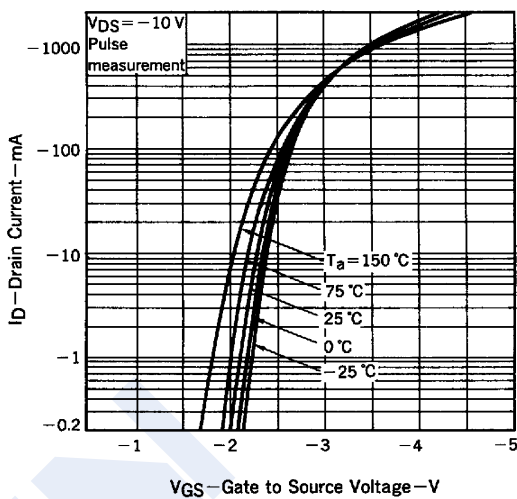
TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE



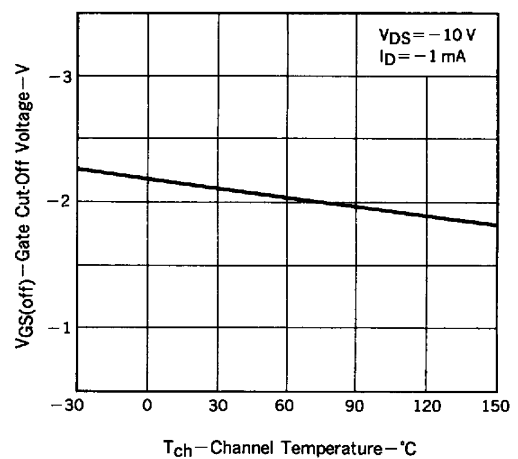
V_{DS} - Drain to Source Voltage - V
DRAIN CURRENT vs. DRAIN TO SOURCE VOLTAGE



TRANSFER CHARACTERISTICS

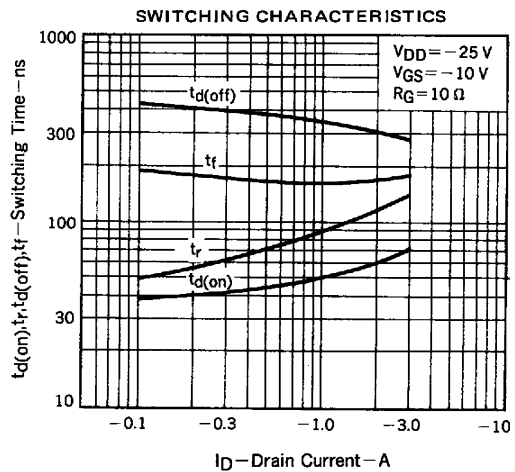
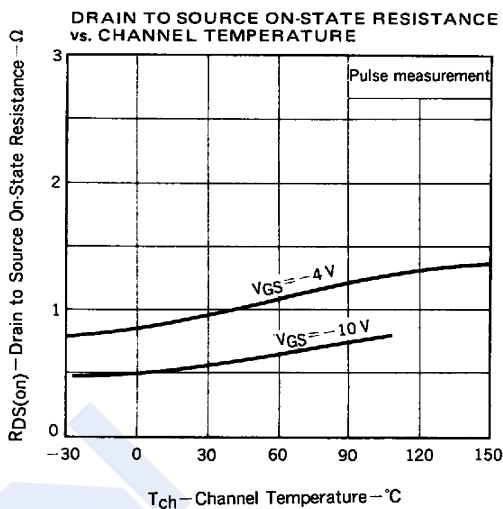
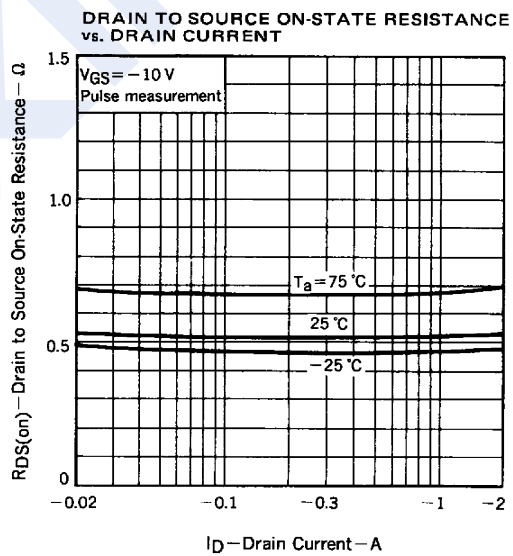
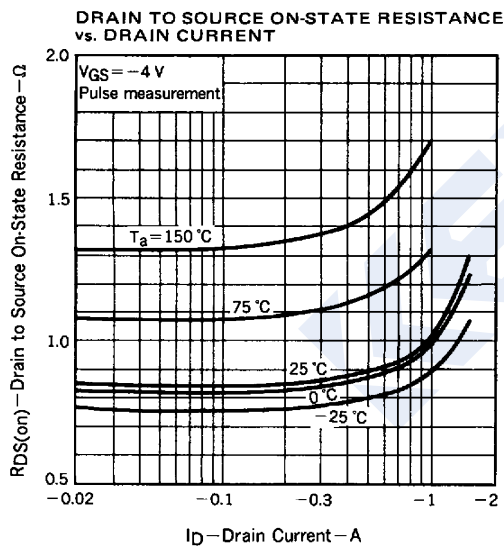
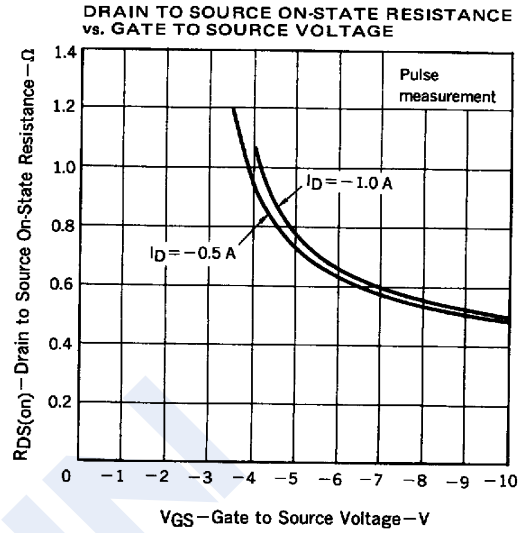
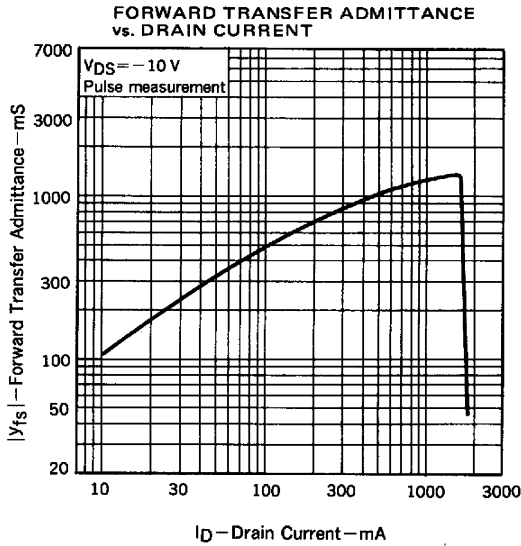


GATE TO SOURCE CUTOFF VOLTAGE vs. CHANNEL TEMPERATURE



P-Channel MOSFET 2SJ197

■ Typical Characteristics



P-Channel MOSFET 2SJ197

■ Typical Characteristics

