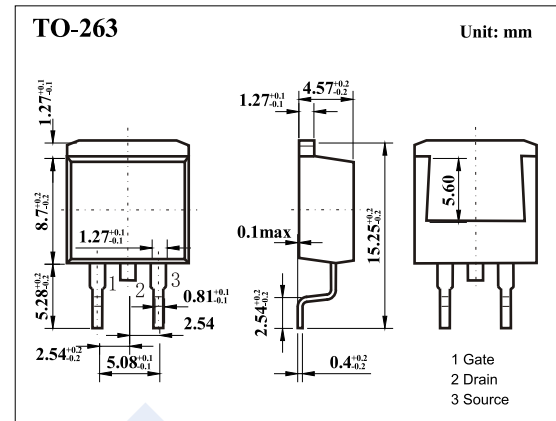
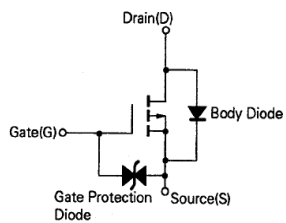


P-Channel MOSFET

2SJ302-ZJ

■ Features

- $V_{DS} (V) = -60V$
- $I_D = -16 A$
- $R_{DS(ON)} < 100m\Omega$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 240m\Omega$ ($V_{GS} = -4V$)



■ 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,+10	
Continuous Drain Current	I_D	-16	A
Pulsed Drain Current (Note.1)	I_{DM}	-64	
Power Dissipation $T_c = 25^\circ C$	P_D	75	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 $\leq 1\%$

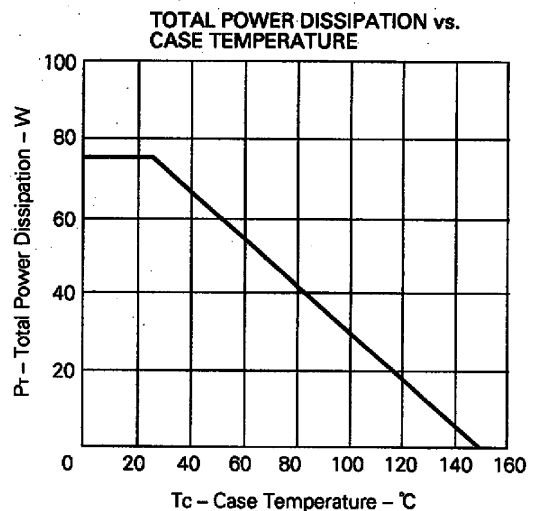
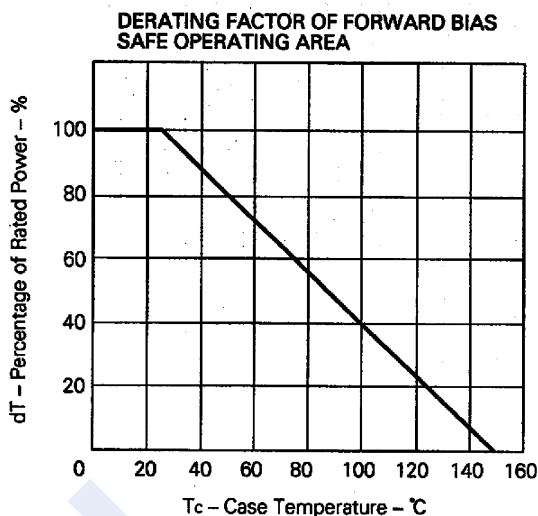
P-Channel MOSFET

2SJ302-ZJ

■ Electrical Characteristics Ta = 25°C

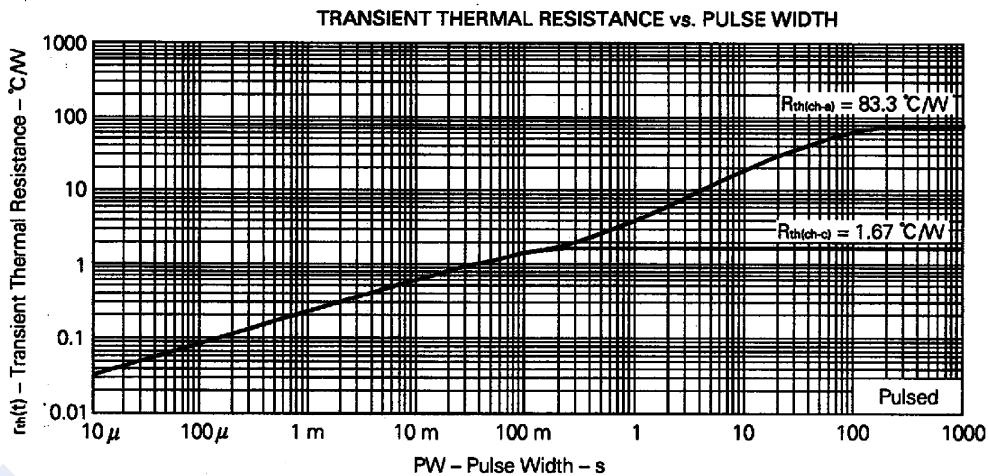
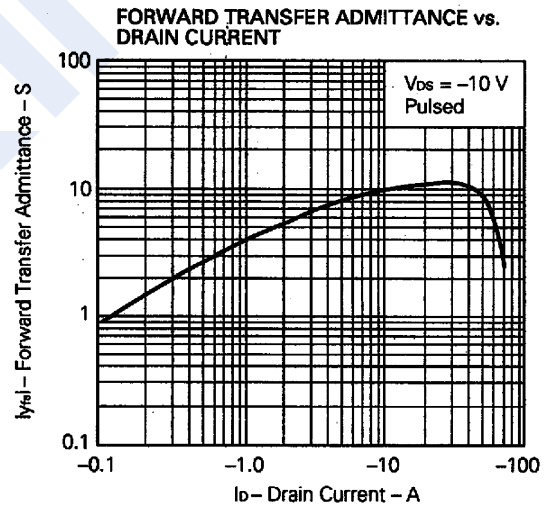
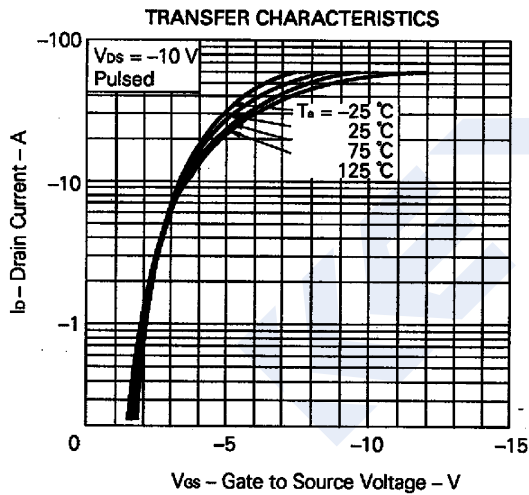
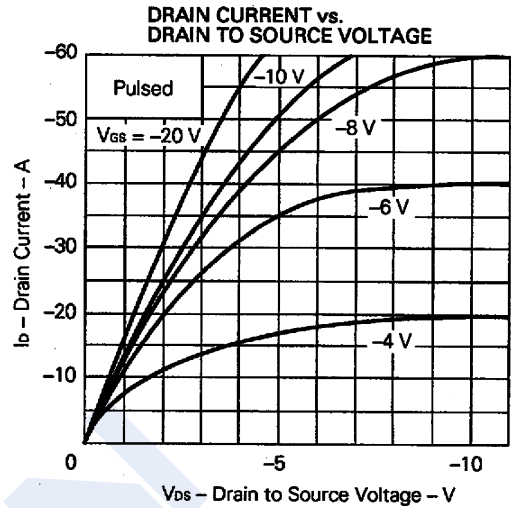
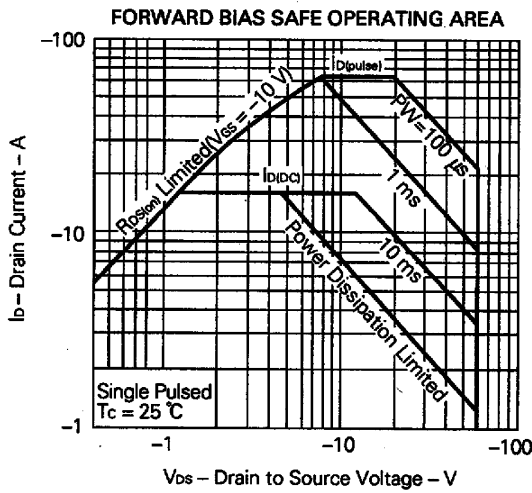
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D = -250 \mu A, V_{GS} = 0V$	-60			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -60V, V_{GS} = 0V$			-10	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V, V_{GS} = \pm 16V$			± 10	μA
Gate Cut off Voltage	$V_{GS(off)}$	$V_{DS} = -10V, I_D = -1mA$	-1		-2	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -10V, I_D = -8A$			100	m Ω
		$V_{GS} = -4V, I_D = -6A$			240	
Forward Transconductance	g_{FS}	$V_{DS} = -10V, I_D = -8A$	5			S
Input Capacitance	C_{iss}	$V_{GS} = 0V, V_{DS} = -10V, f = 1MHz$		1200		pF
Output Capacitance	C_{oss}			670		
Reverse Transfer Capacitance	C_{rss}			290		
Total Gate Charge	Q_g	$V_{GS} = -10V, V_{DS} = -48V, I_D = -16A$		42		nC
Gate Source Charge	Q_{gs}			3		
Gate Drain Charge	Q_{gd}			17		
Turn-On DelayTime	$t_{d(on)}$	$V_{GS(on)} = -10V, V_{DS} = -30V, I_D = -8A, R_L = 3.75 \Omega, R_{GEN} = 10 \Omega$		30		ns
Turn-On Rise Time	t_r			170		
Turn-Off DelayTime	$t_{d(off)}$			150		
Turn-Off Fall Time	t_f			130		
Body Diode Reverse Recovery Time	t_{rr}	$I_F = -16A, V_{GS} = 0, di/dt = 100A/\mu s$		110		nC
Body Diode Reverse Recovery Charge	Q_{rr}			220		
Diode Forward Voltage	V_{SD}	$I_F = -16A, V_{GS} = 0V$		-1		V

■ Typical Characteristics



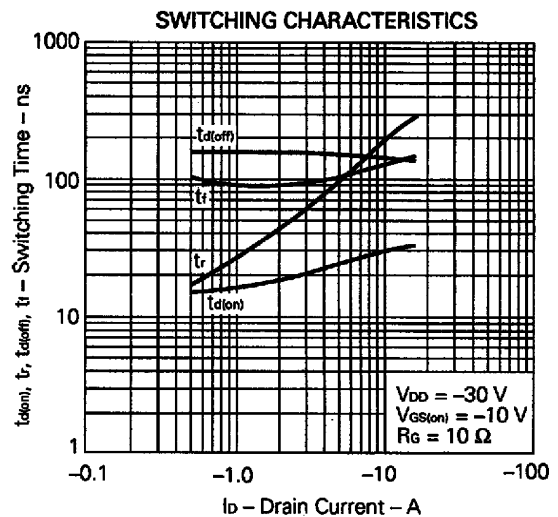
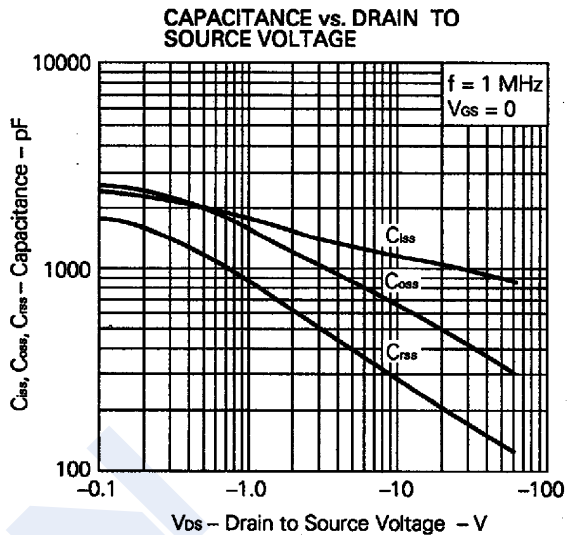
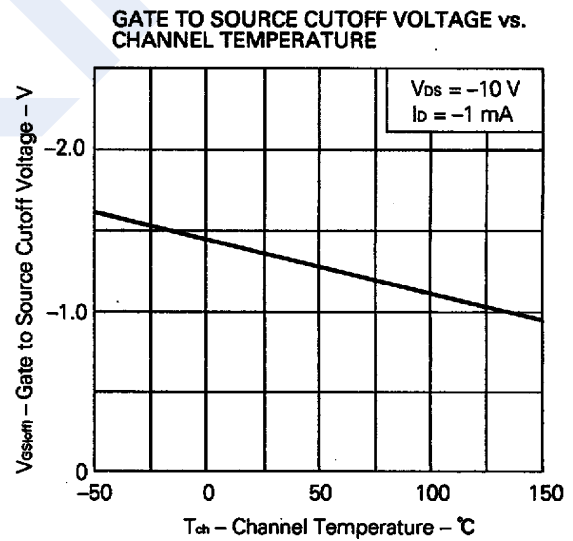
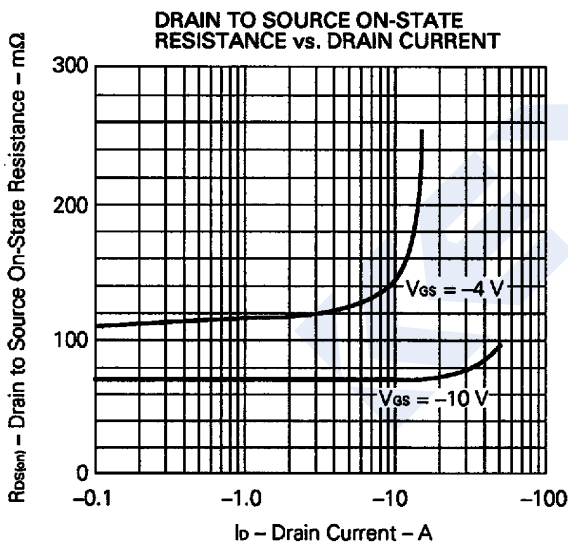
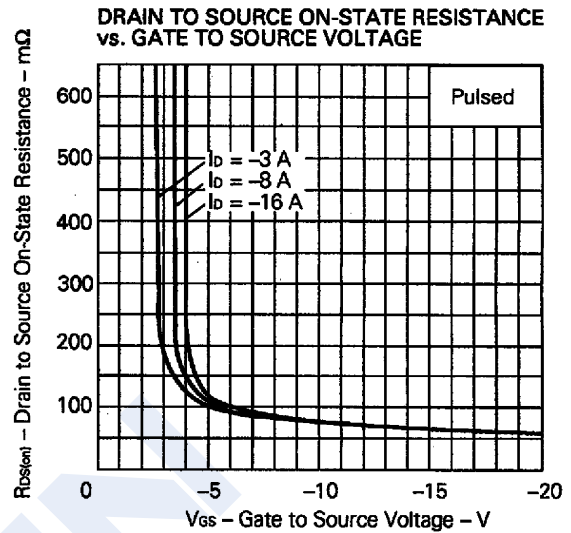
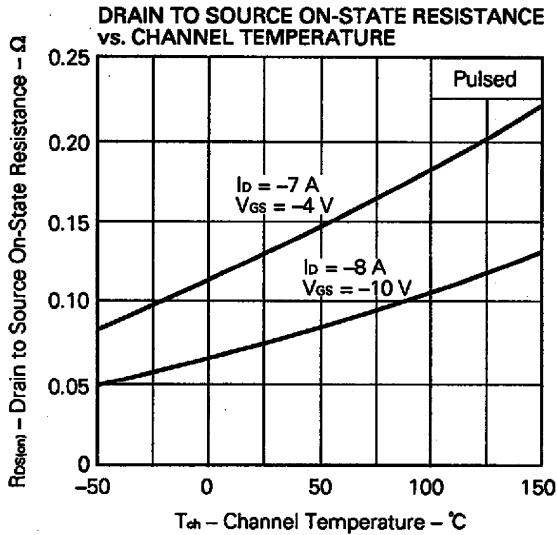
P-Channel MOSFET 2SJ302-ZJ

■ Typical Characteristics



P-Channel MOSFET 2SJ302-ZJ

■ Typical Characteristics



P-Channel MOSFET 2SJ302-ZJ

■ Typical Characteristics

