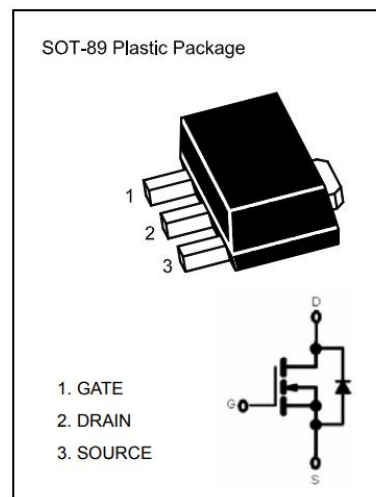


N-Channel MOSFET

■ Features

- $V_{DS} (V) = 30V$
- $I_D = 2 A$
- $R_{DS(ON)} < 800m\Omega$ ($V_{GS} = 4V$)
- $R_{DS(ON)} < 400m\Omega$ ($V_{GS} = 10V$)
- Compliments the 2SJ197
- Marking: NB



■ 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	2	A
Pulsed Drain Current (Note.1)	I_{DM}	4	
Power Dissipation $T_a = 25^\circ C$	P_D	2	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

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

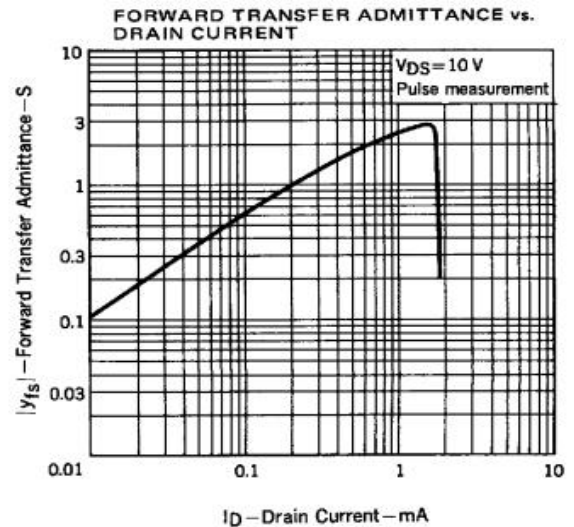
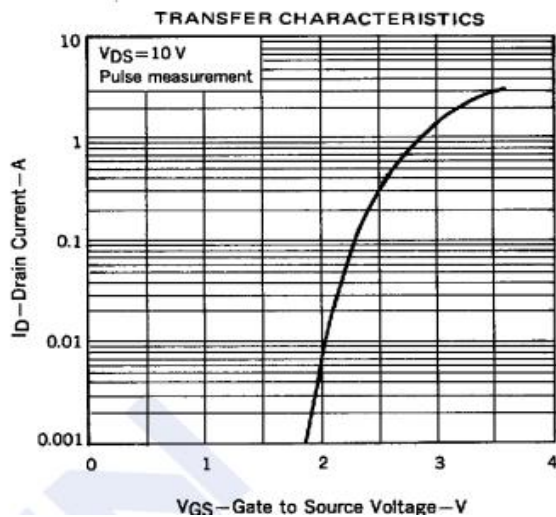
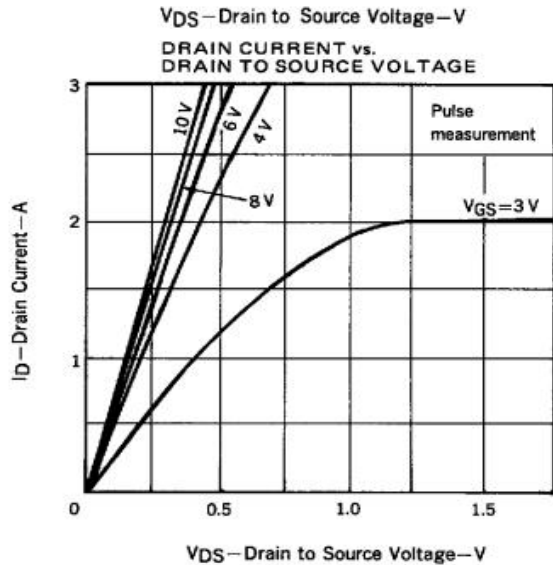
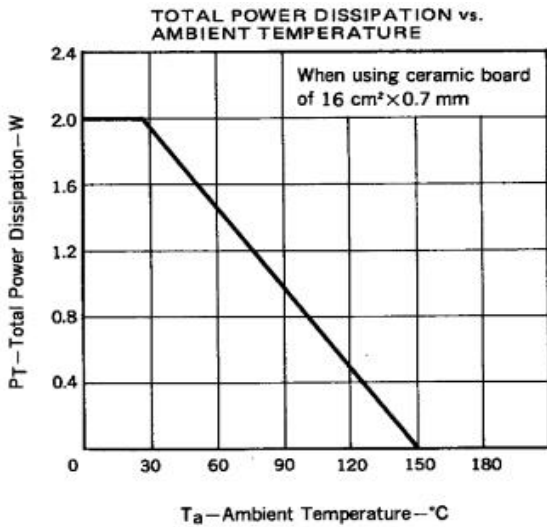
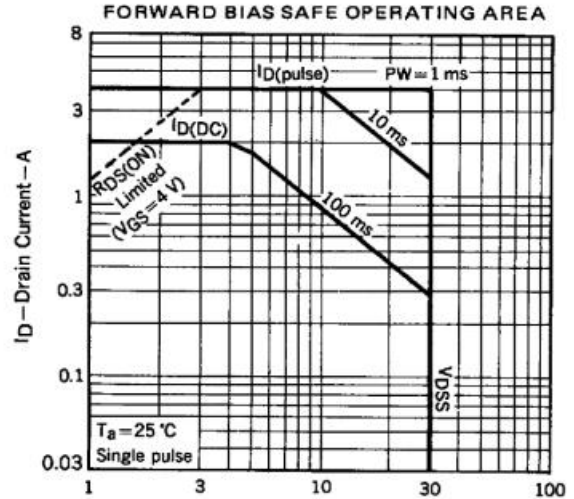
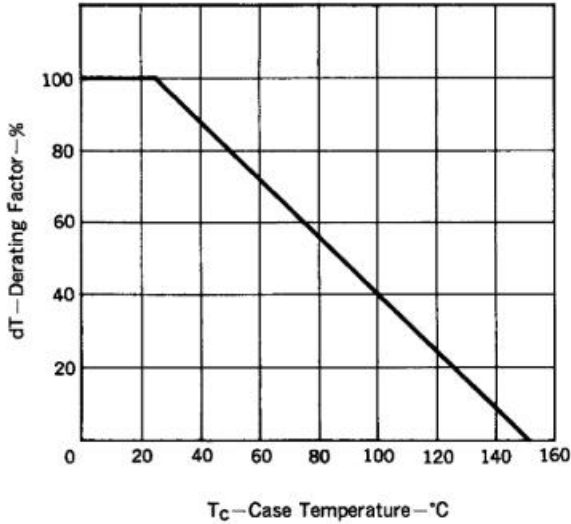
■ Electrical Characteristics $T_a = 25^\circ C$

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}	$V_{DS} = 0V, V_{GS} = \pm 20V$			± 10	μA
Gate Cut-off Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1mA$	1.3		2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = 4V, I_D = 0.5 A$			0.8	Ω
		$V_{GS} = 10V, I_D = 0.5 A$			0.4	
Forward Transconductance	g_{FS}	$V_{DS} = 10V, I_D = 0.5 A$	0.4			S
Input Capacitance	C_{iss}	$V_{GS} = 0V, V_{DS} = 10V, f = 1MHz$		230		pF
Output Capacitance	C_{oss}			170		
Reverse Transfer Capacitance	C_{rss}			45		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS(on)} = 10V, V_{DS} = 25V, I_D = 0.5A, R_L = 50 \Omega, R_G = 10 \Omega$		15		ns
Turn-On Rise Time	t_r			50		
Turn-Off Delay Time	$t_{d(off)}$			420		
Turn-Off Fall Time	t_f			240		



Typical Characteristics

DERATING FACTOR OF FORWARD BIAS SAFE OPERATING AREA





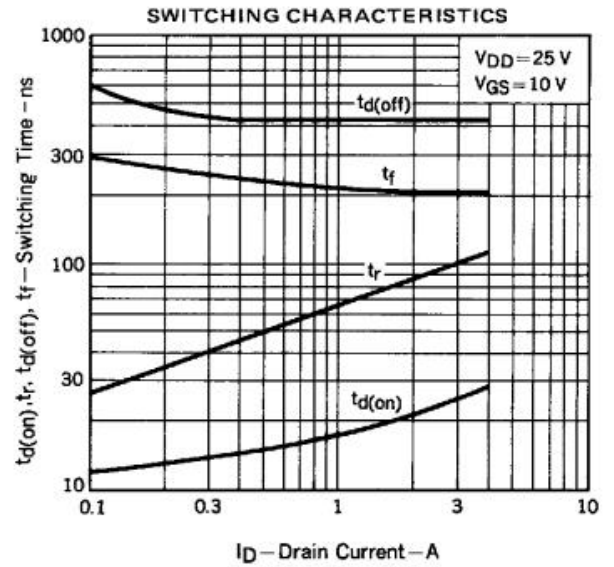
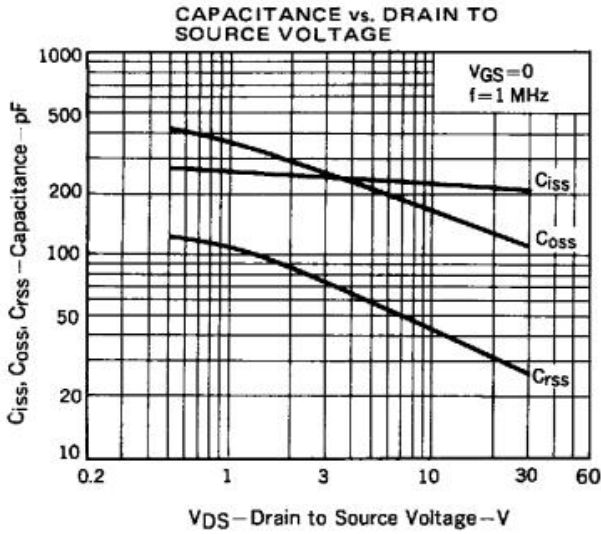
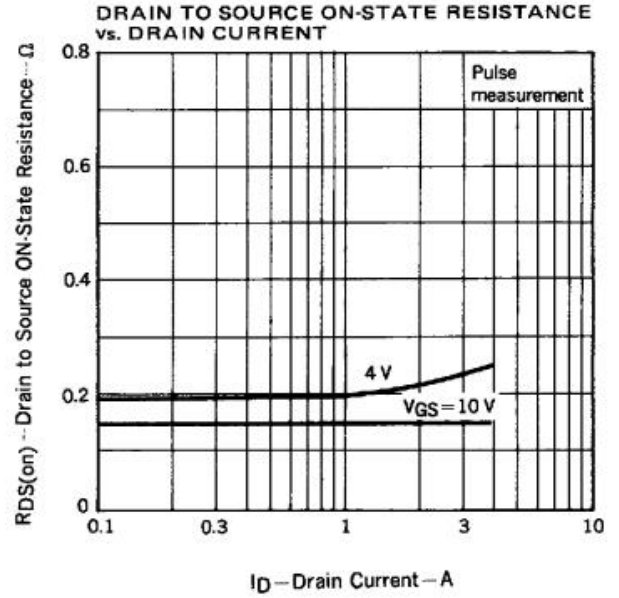
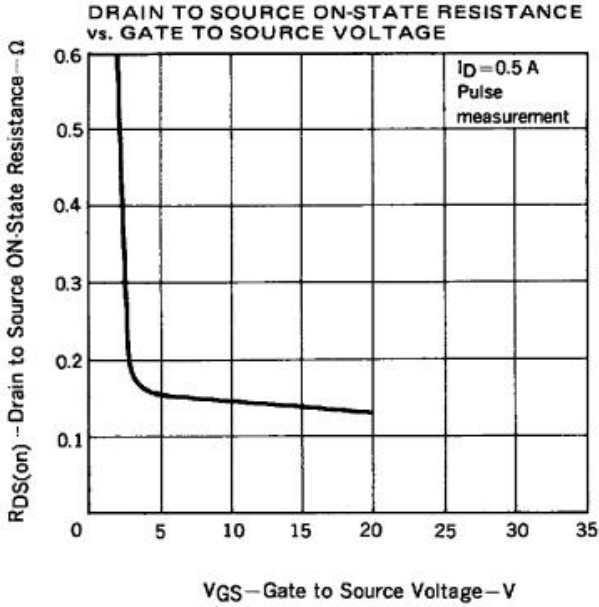
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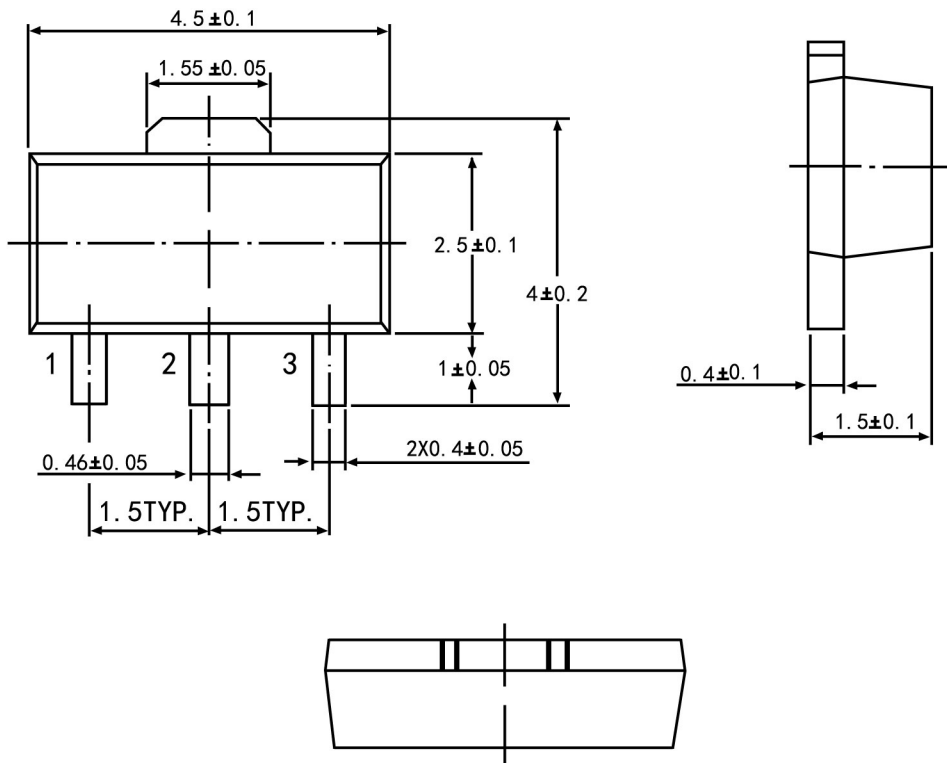


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SOT-89 PACKAGE OUTLINE



Symbol	Dimension in Millimeters	
	Min	Max
A	1.40	1.60
B	0.44	0.62
B1	0.35	0.54
C	0.35	0.44
D	4.40	4.60
D1	1.62	1.83
E	2.29	2.60
e	1.50 Typ	
H	3.94	4.25
H1	2.63	2.93
L	0.89	1.20
All Dimensions In mm		