

SANYO	No.3768A	2SJ195
		P-Channel MOS Silicon FET Very High-Speed Switching Applications

Features

- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.

Absolute Maximum Ratings at Ta = 25°C

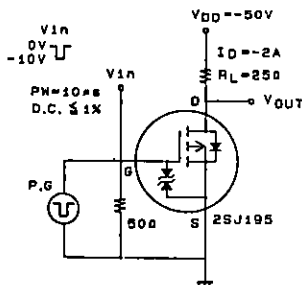
			unit
Drain to Source Voltage	V _{DS}	-100	V
Gate to Source Voltage	V _{GS}	±15	V
Drain Current(DC)	I _D	-4	A
Drain Current(Pulse)	I _{DP}	-16	A
Allowable Power Dissipation	P _D	30	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

PW ≤ 10 μs, duty cycle ≤ 1%
T_c = 25°C

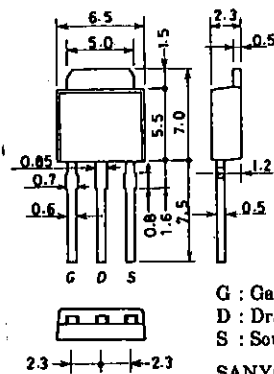
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = -1mA, V _{GS} = 0	-100			V
G-S Breakdown Voltage	V _{(BR)GSS}	I _G = ±100 μA, V _{DS} = 0	±15			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = -100V, V _{GS} = 0			-100	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} = ±12V, V _{DS} = 0			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} = -10V, I _D = -1mA	-1.0		-2.0	V
Forward Transfer Admittance	Y _{fs}	V _{DS} = -10V, I _D = -2A	2.5	4		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D = -2A, V _{GS} = -10V		0.3	0.4	Ω
	R _{DS(on)}	I _D = -2A, V _{GS} = -4V		0.4	0.55	Ω
Input Capacitance	C _{iss}	V _{DS} = -20V, f = 1MHz		950		pF
Output Capacitance	C _{oss}	V _{DS} = -20V, f = 1MHz		200		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = -20V, f = 1MHz		40		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		15		ns
Rise Time	t _r	"		25		ns
Turn-OFF Delay Time	t _{d(off)}	"		90		ns
Fall Time	t _f	"		70		ns
Diode Forward Voltage	V _{SD}	I _S = -4A, V _{GS} = 0	-1.0	-1.5		V

Switching Time Test Circuit

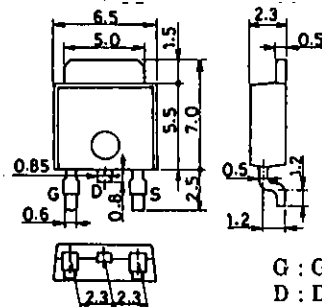


Package Dimensions 2083A (unit : mm)



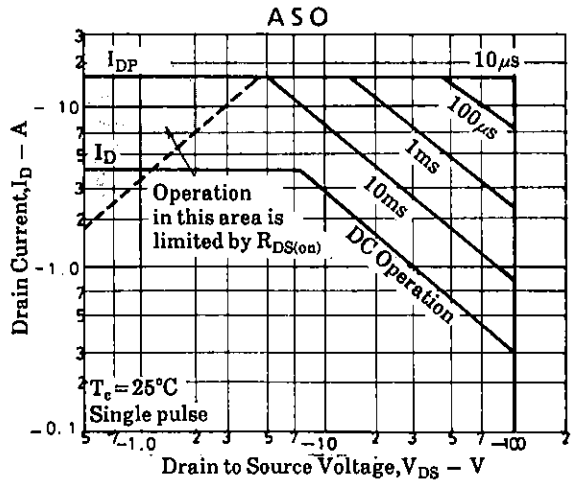
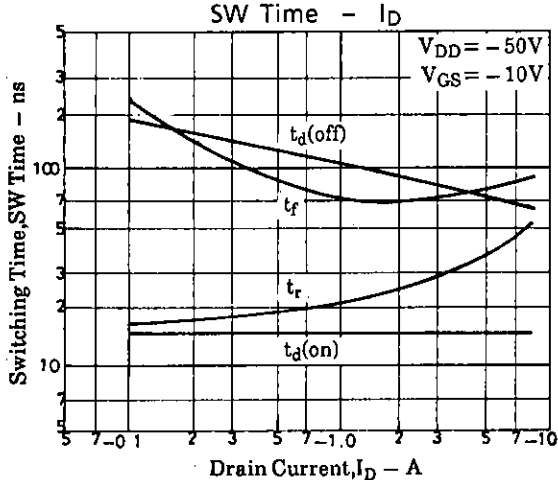
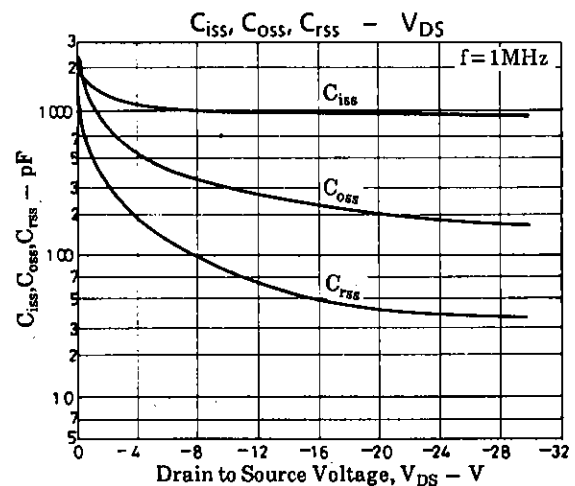
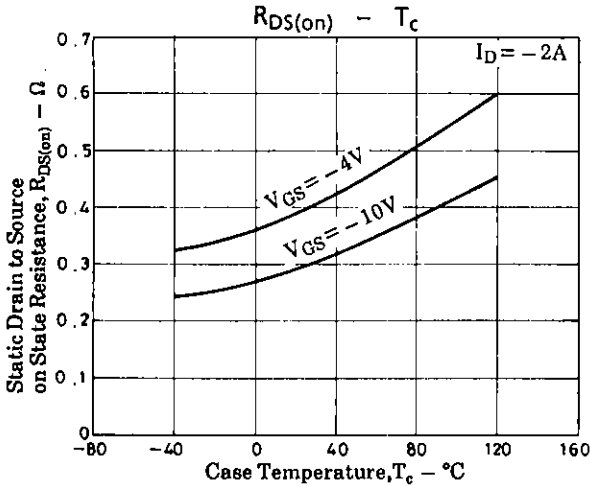
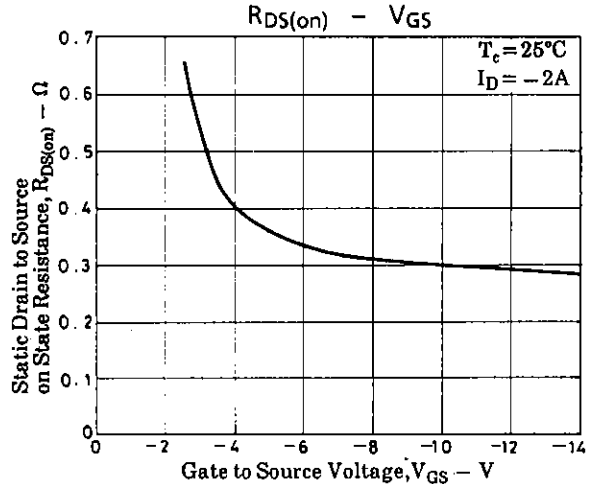
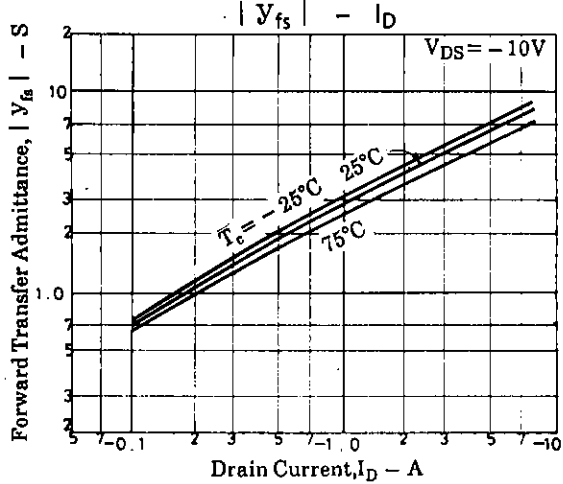
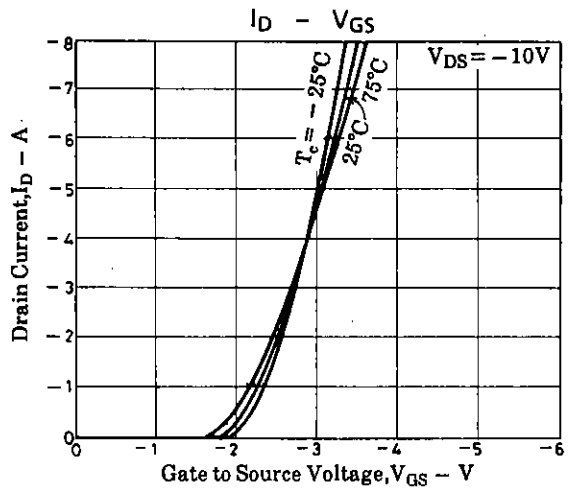
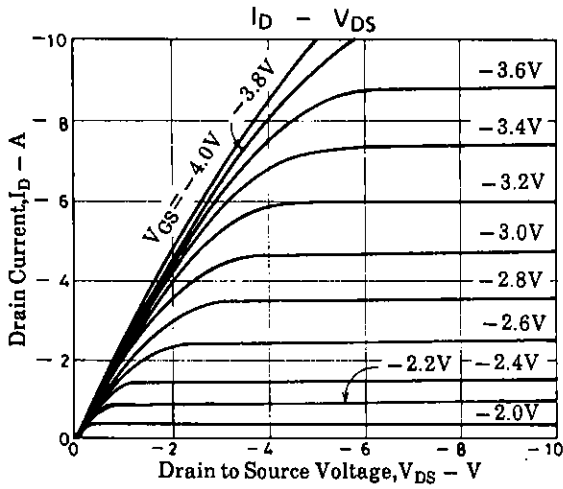
G : Gate
D : Drain
S : Source
SANYO : TP

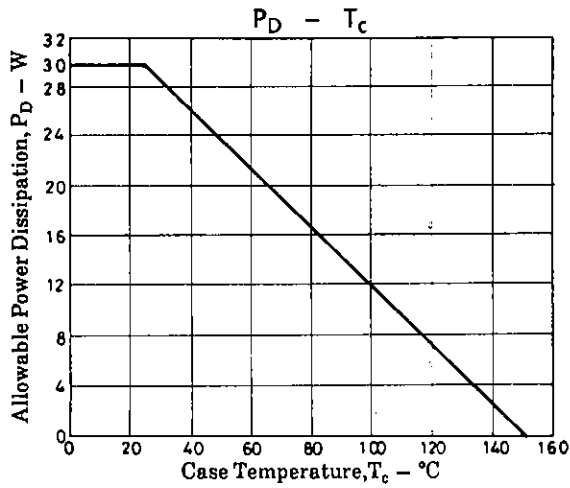
Package Dimensions 2092A (unit : mm)



G : Gate
D : Drain
S : Source

SANYO : TP - FA





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