

No.3763

2SJ190

SANYO

P-Channel MOS Silicon FET

Very High-Speed Switching Applications

Features

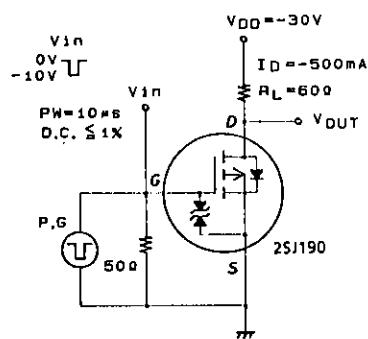
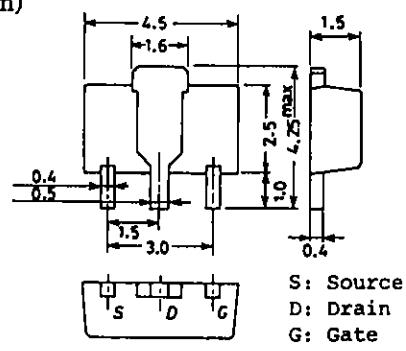
- Low ON resistance
- Very high-speed switching
- Low-voltage drive

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V _{DSS}	-60	V
Gate to Source Voltage	V _{GSS}	±15	V
Drain Current (DC)	I _D	-1	A
Drain Current (Pulse)	I _{DP}	-4	A
Allowable Power Dissipation	P _D	3.5 1.5	W W
		(T _c = 25°C Mounted on ceramic board (250mm ² × 0.8mm))	
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

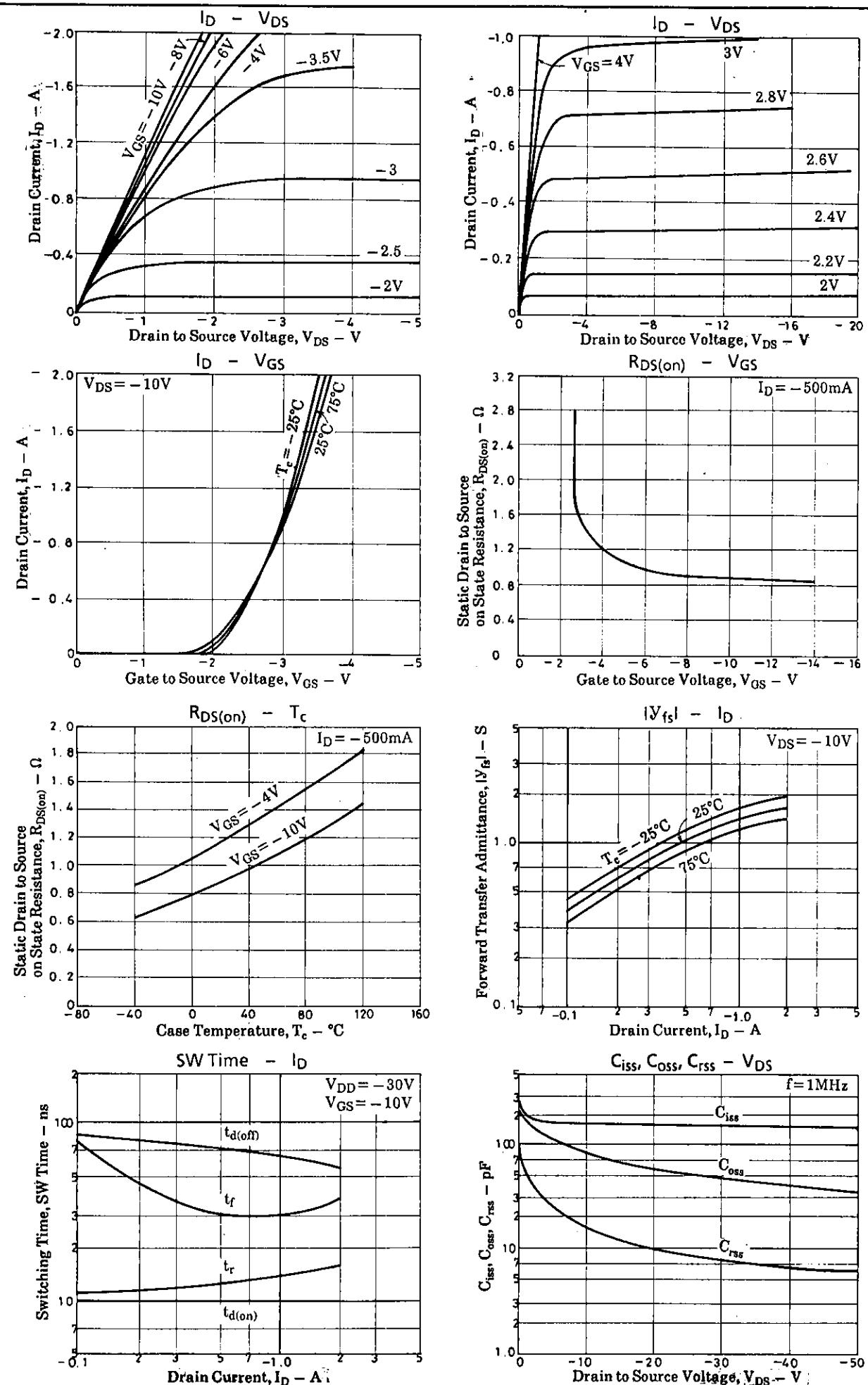
Electrical Characteristics at Ta = 25°C

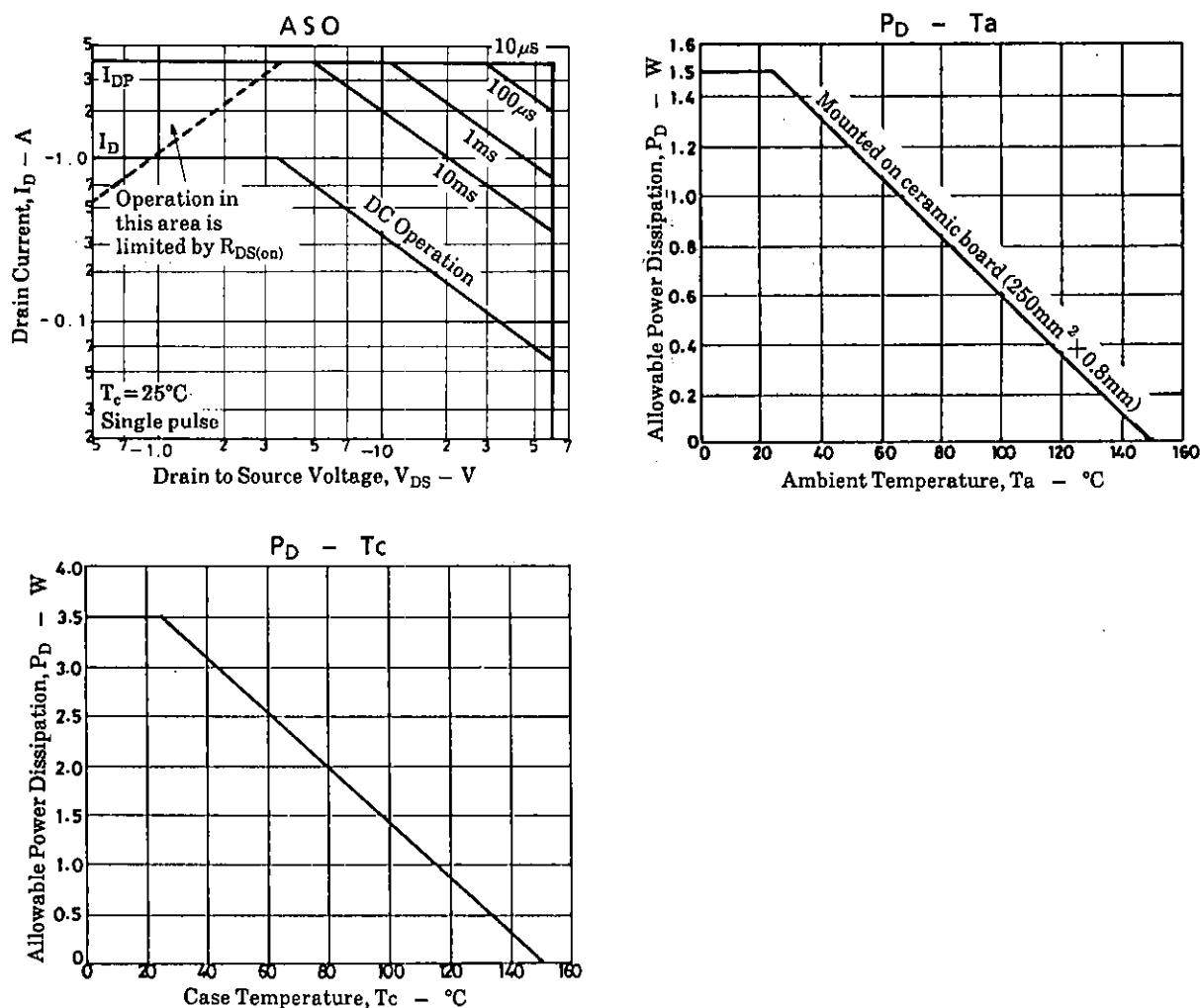
			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = -1mA, V _{GS} = 0	-60			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = -60V, V _{GS} = 0			-100	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} = ±12V, V _{DS} = 0			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} = -10V, I _D = -1mA	-1.0		-2.0	V
Forward Transfer Admittance	Y _{fs}	V _{DS} = -10V, I _D = -500mA	0.6	1.0		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D = -500mA, V _{GS} = -10V		0.9	1.2	Ω
Input Capacitance	C _{iss}	I _D = -500mA, V _{GS} = -4V		1.2	1.6	Ω
Output Capacitance	C _{oss}	V _{DS} = -20V, f = 1MHz	160			pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = -20V, f = 1MHz	60			pF
Turn-ON Delay Time	t _{d(on)}	V _{DS} = -20V, f = 1MHz	10			pF
Rise Time	t _r	See specified Test Circuit.	10			ns
Turn-OFF Delay Time	t _{d(off)}	"	13			ns
Fall Time	t _f	"	70			ns
Diode Forward Voltage	V _{SD}	I _S = -1A, V _{GS} = 0	-0.9			V

Switching Time Test Circuit**Package Dimensions 2062**
(unit : mm)

SANYO: PCP

SANYO Electric Co., Ltd. Semiconductor Business Headquarters
 TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN





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