

**Features**

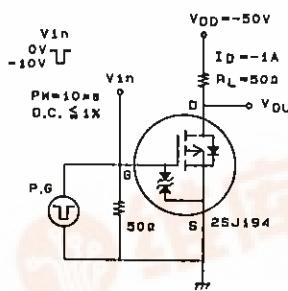
- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.

Absolute Maximum Ratings at Ta = 25°C

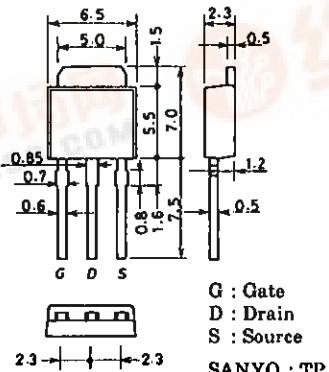
			unit
Drain to Source Voltage	V _{DSS}	-100	V
Gate to Source Voltage	V _{GSS}	±15	V
Drain Current(DC)	I _D	-2	A
Drain Current(Pulse)	I _{DP}	PW ≤ 10 μs, duty cycle ≤ 1% -8	A
Allowable Power Dissipation	P _D	T _c = 25°C 20	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{tsg}	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = -1mA, V _{GS} = 0	-100			V
G-S Breakdown Voltage	V _{(BR)GSS}	I _G = ±100 μA, V _{DS} = 0	±15			V
Zero Gate Voltage	I _{DSS}	V _{DS} = -100V, V _{GS} = 0			-100	μA
Drain Current						
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 = -1A	1.2	2		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D = -1A, V _{GS} = -10V		0.7	0.95	Ω
Input Capacitance	C _{iss}	V _{DS} = -20V, f = 1MHz	380			pF
Output Capacitance	C _{oss}	V _{DS} = -20V, f = 1MHz	100			pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = -20V, f = 1MHz	20			pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.	12			ns
Rise Time	t _r	"	14			ns
Turn-OFF Delay Time	t _{d(off)}	"	75			ns
Fall Time	t _f	"	40			ns
Diode Forward Voltage	V _{SD}	I _S = -2A, V _{GS} = 0	-1.0	-1.5		V

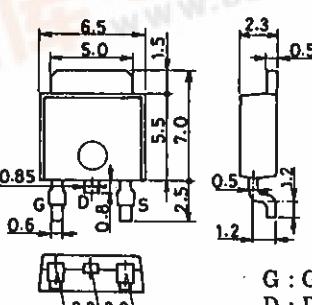
Switching Time Test Circuit

Package Dimensions 2083A
(unit : mm)



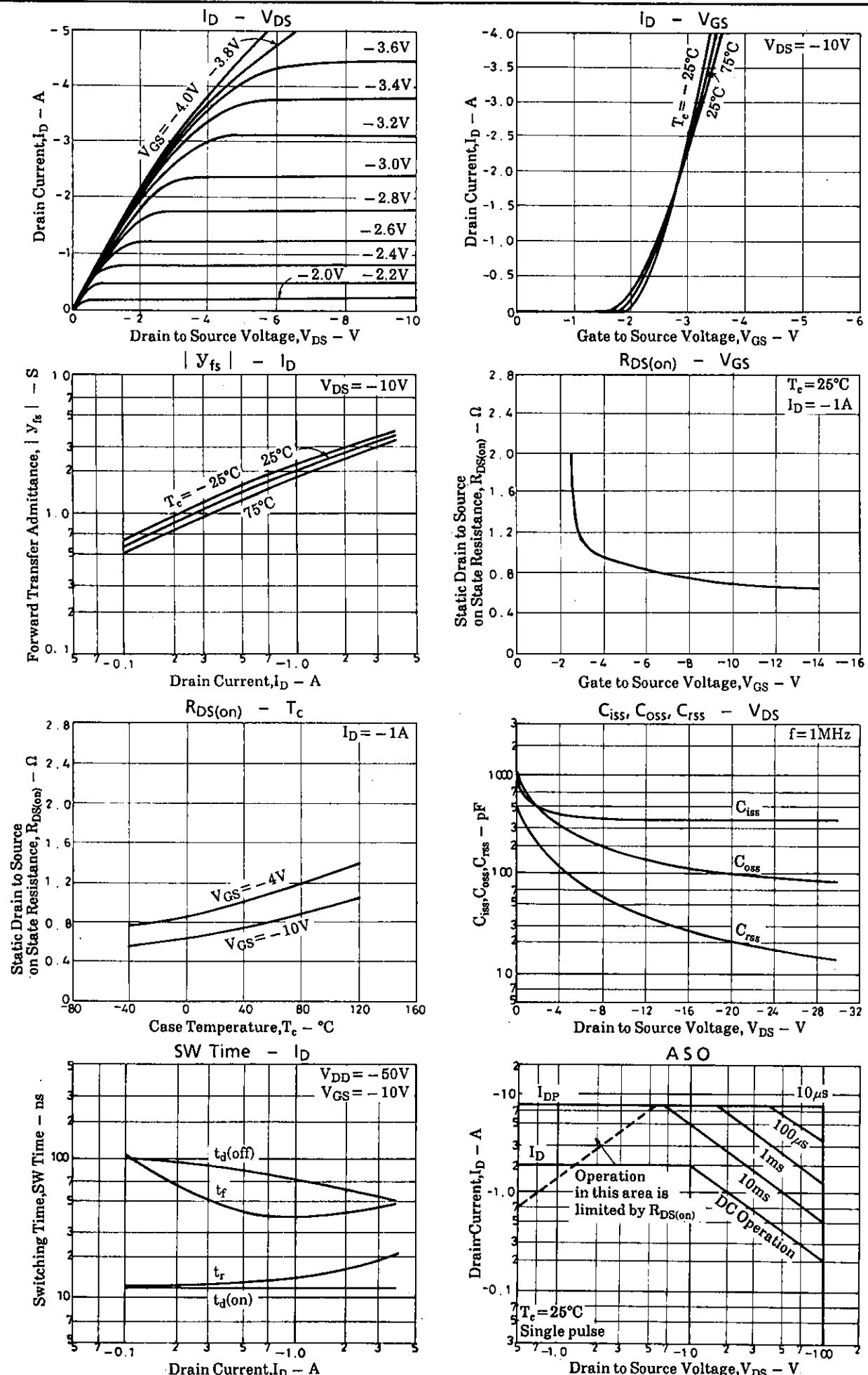
G : Gate
D : Drain
S : Source
SANYO : TP

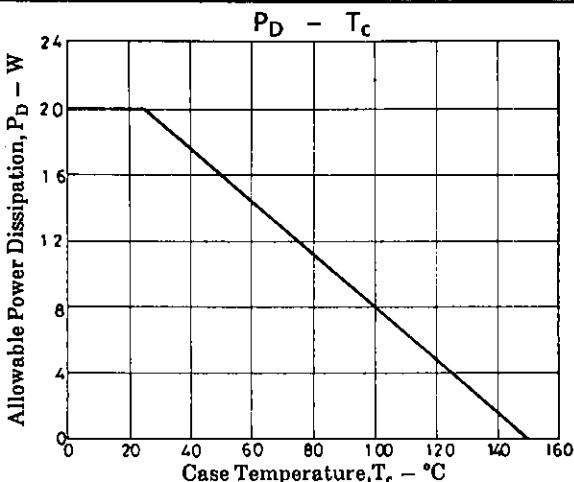
Package Dimensions 2092A
(unit : mm)



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

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