

SANYO

No.4669

2SJ337

P-Channel MOS Silicon FET

Very High-Speed Switching Applications

Features

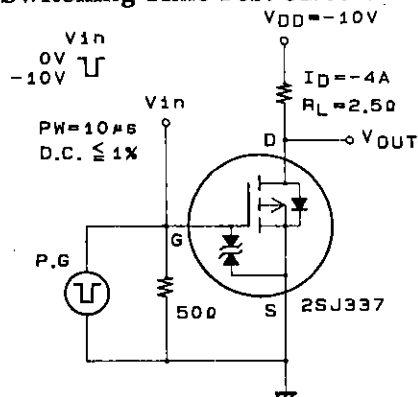
- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

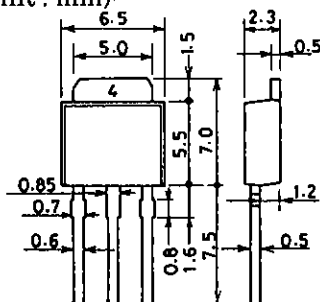
			unit
Drain-to-Source Voltage	V_{DS}	-12	V
Gate-to-Source Voltage	V_{GS}	± 18	V
Drain Current(DC)	I_D	-8	A
Drain Current(Pulse)	I_{DP}	$PW \leq 10\mu s$, duty cycle $\leq 1\%$	-32 A
Allowable Power Dissipation	P_D	1	W
	P_D	$T_c = 25^\circ\text{C}$	30 W
Channel Temperature	T_{ch}	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1\text{mA}, V_{GS} = 0$	-12			V
G-S Breakdown Voltage	$V_{(BR)GSS}$	$I_G = \pm 100\mu A, V_{DS} = 0$	± 18			V
Zero-Gate Voltage	I_{DSS}	$V_{DS} = -12\text{V}, V_{GS} = 0$			-100	μA
Drain Current						
Gate to Source Leakage Current	I_{GSS}	$V_{GS} = \pm 12\text{V}, V_{DS} = 0$			± 10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = -10\text{V}, I_D = -1\text{mA}$	-1.0		-2.0	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = -10\text{V}, I_D = -4\text{A}$	4	6		S
Static Drain-to-Source	$R_{DS(on)}$	$I_D = -4\text{A}, V_{GS} = -10\text{V}$		65	90	m Ω
ON-State Resistance	$R_{DS(on)}$	$I_D = -4\text{A}, V_{GS} = -4\text{V}$		110	150	m Ω
Input Capacitance	C_{iss}	$V_{DS} = -10\text{V}, f = 1\text{MHz}$		1000		pF
Output Capacitance	C_{oss}	$V_{DS} = -10\text{V}, f = 1\text{MHz}$		900		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = -10\text{V}, f = 1\text{MHz}$		220		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		15		ns
Rise Time	t_r	"		50		ns
Turn-OFF Delay Time	$t_{d(off)}$	"		220		ns
Fall Time	t_f	"		145		ns
Diode Forward Voltage	V_{SD}	$I_S = -8\text{A}, V_{GS} = 0$	-1.0	-1.5		V

Switching Time Test Circuit**Package Dimensions 2083B**

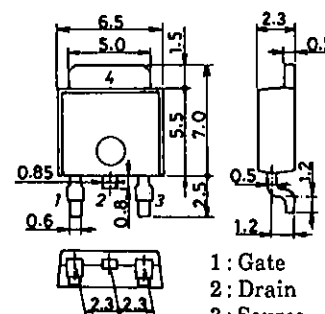
(unit : mm)



1: Gate
2: Drain
3: Source
4: Drain
SANYO : TP

Package Dimensions 2092B

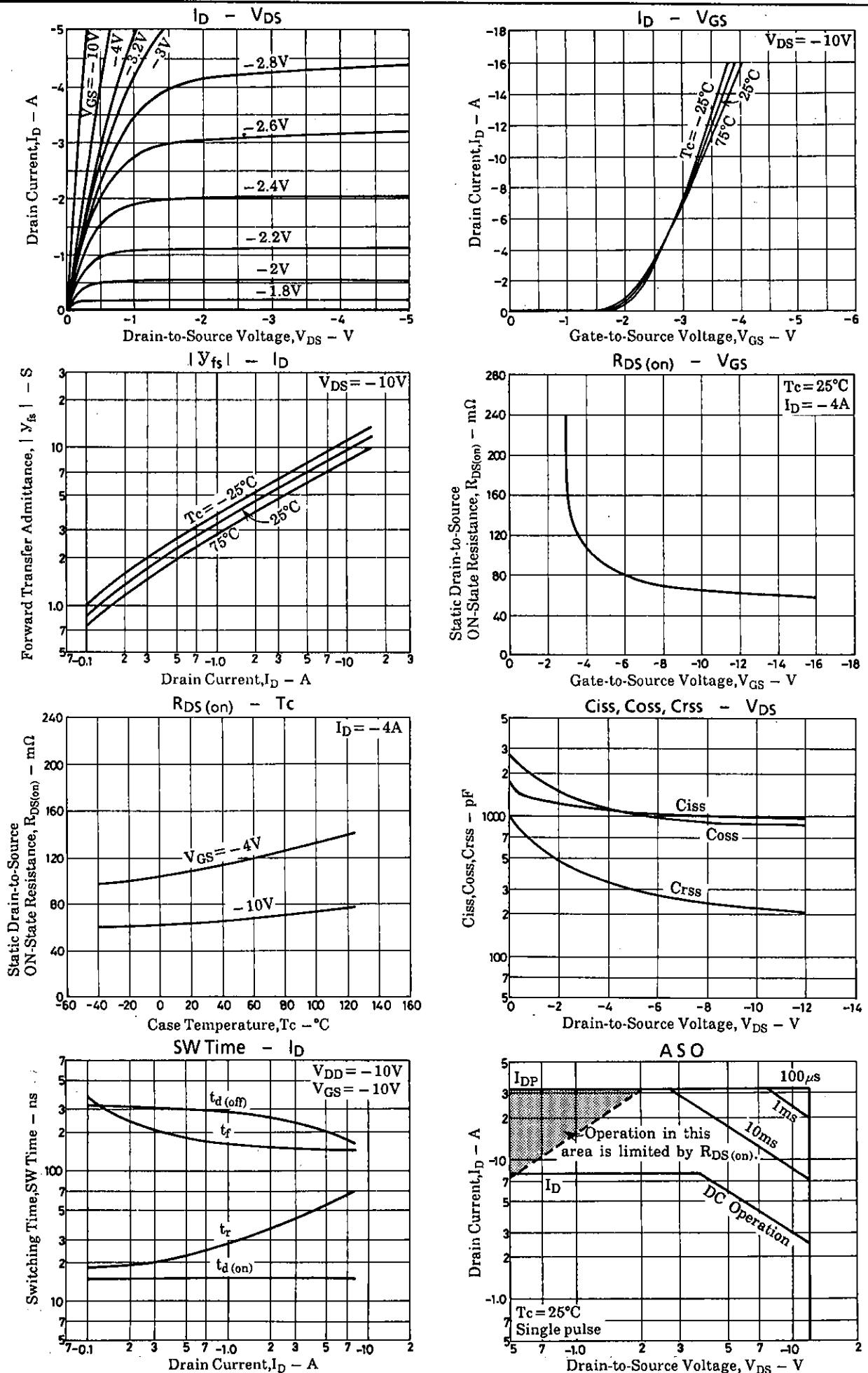
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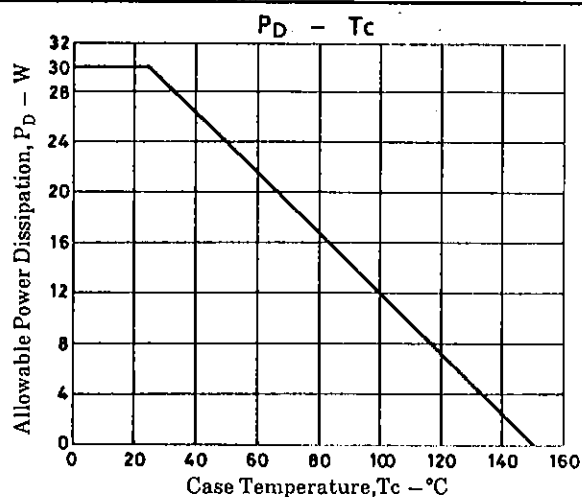
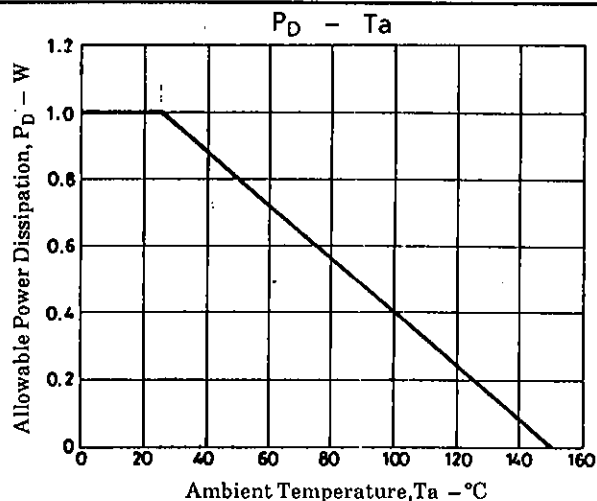


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SANYO : TP-FA

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