2SJ337

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



Ultrahigh-Speed Switching Applications

Features

- · Low ON resistance.
- · Ultrahigh-speed switching.
- · Low-voltage drive.

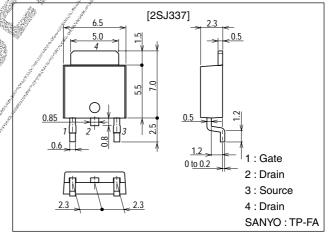
Package Dimensions

unit:mm 2083B



unit:mm

2092B



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- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges,or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

Specifications

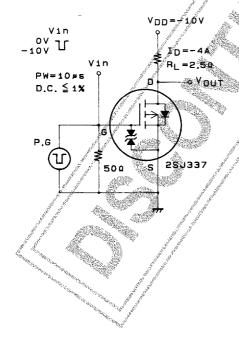
Absolute Maximum Ratings at $Ta = 25^{\circ}C$

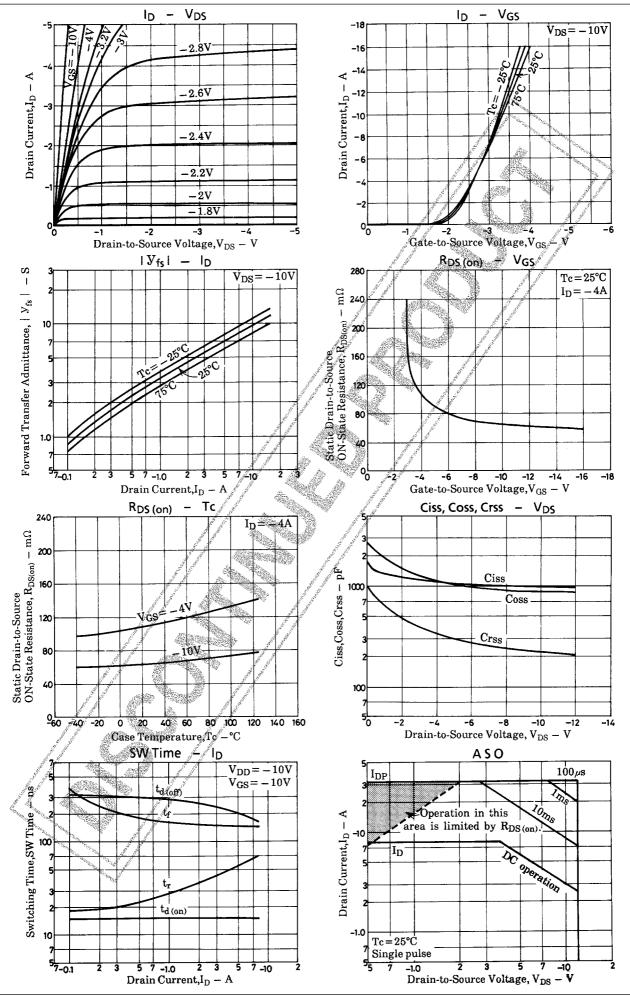
Parameter	Symbol	Conditions		Ratings	Unit
Drain-to-Source Voltage	V _{DSS}			-12	V
Gate-to-Source Voltage	V _{GSS}		6	±18	V
Drain Current (DC)	ΙD		and the second	_8	А
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	Jan Jan	-32	А
Allowable Power Dissipation	PD	Tc=25°C		30	W
Channel Temperature	Tch	10-25 0		150	
Storage Temperature	Tstg			-55 to +150	°C

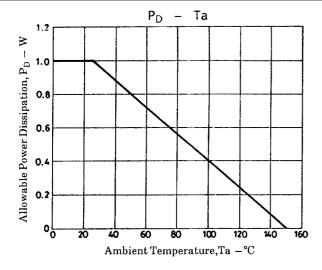
Electrical Characteristics at $Ta = 25^{\circ}C$

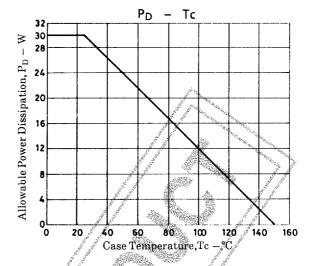
Parameter	Symbol	Conditions	min	Ratings typ	max	Unit
Drain-to-Source Breakdown Voltage	V _{(BR)DSS}	I _D =-1mA, V _{GS} =0	-12	11		V
Gate-to-Source Breakdown Voltage	V _(BR) GSS	I _G =±100μA, V _{DS} =0	±18			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-12V, V _{GS} =0	J ^{eff}	g g g	-100	μA
Gate-to-Source Leakage Current	IGSS	V _{GS} =±12V, V _{DS} =0	and the second		±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	<i>∮</i> , 1.0		-2.0	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-1 A	4	6		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =-4A, V _{GS} =-10)	Č.	65	90	mΩ
Static Diam-to-Source ON-State nesistance	R _{DS(on)}	I _D =-4A, V _G \$=-4V		110	150	mΩ
Input Capacitance	Ciss	V _{DS} =-10V, f≠1MHz		1000		pF
Output Capacitance	Coss	V _{DS} =-10V/1=1MHz		900		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		220		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit		15		ns
Rise Time	t _r	See specified Test Circuit		50		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit		220		ns
Fall Time	t _f	See specified Test Circuit		145		ns
Diode Forward Voltage	Vsp	IS=-8A, VGS=0		-1.0	-1.5	V

Switching Time Test Circuit









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