2SJ195



Ultrahigh-Speed Switching Applications

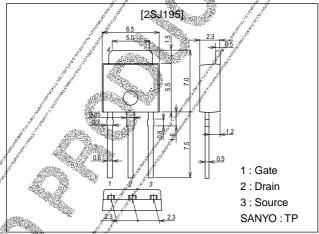
Features

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

Package Dimensions

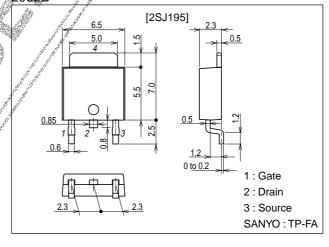
unit:mm

2083B



unit:mm

2092B



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Specifications

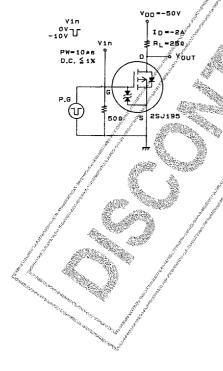
Absolute Maximum Ratings at Ta = 25°C

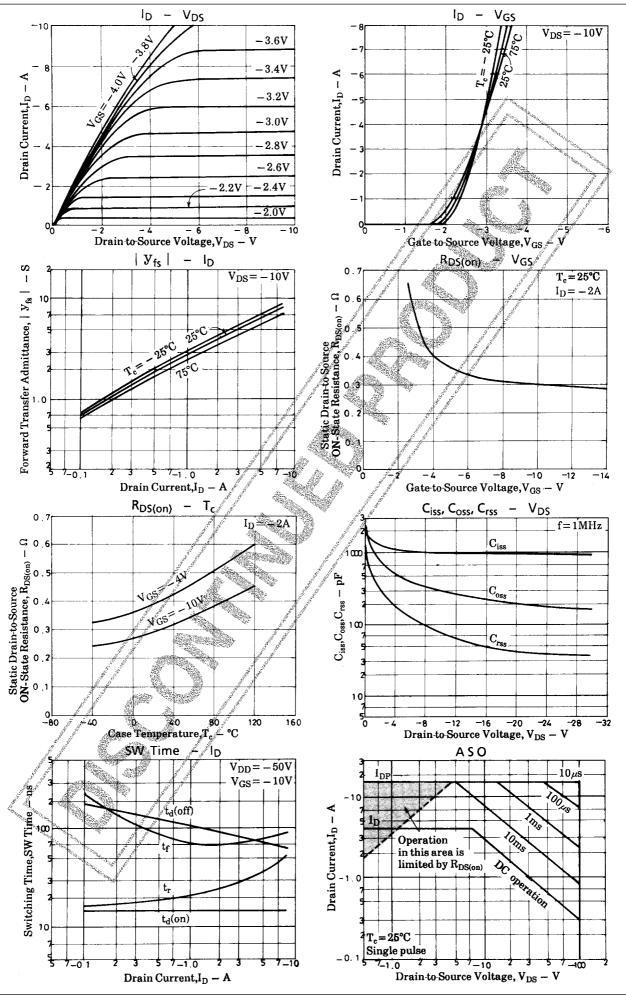
Parameter	Symbol	Conditions		Ratings	Unit
Drain-to-Source Voltage	V _{DSS}			-100	V
Gate-to-Source Voltage	V _{GSS}		å	±15	V
Drain Current (DC)	I _D		A CONTRACTOR OF	-4	Α
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	11	-16	Α
Allowable Power Dissipation	P _D	Tc=25°C	1 1	30	W
Channel Temperature	Tch		And Market	150	, c
Storage Temperature	Tstg	, gi	T said	÷55 to +150	∕ °C

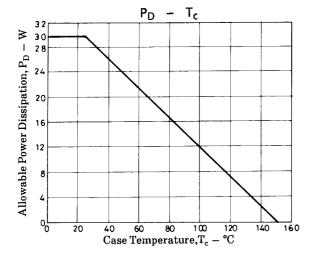
Electrical Characteristics at Ta = 25°C

			30:55	15.221	1 S	
Parameter	Symbol	Conditions	min	Ratings typ,	max	Unit
Drain-to-Source Breakdown Voltage	V _{(BR)DSS}	I _D =-1mA, V _{GS} =0	≟1 00			V
Gate-to-Source Breakdown Voltage	V(BR)GSS	I _G =±100μA, V _{DS} =0	±15			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-100V, V _{GS} =0	المراق		-100	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±12V, V _{DS} =0	7 de 1	air ⁰	±10	μΑ
Cutoff Voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	<u>"</u> –1,∙0		-2.0	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-2A	<i>j</i> 2.5	4		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =-2A, V _{GS} =-10V	and the same of th	0.3	0.4	Ω
	R _{DS(on)}	I _D =-2A, V _{GS} =-4V		0.4	0.55	Ω
Input Capacitance	Ciss	V _{DS} =−20V, f=1MHz		950		pF
Output Capacitance	Coss	V _{DS} =−20¥, f≠1MHz		200		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-20V, f=1MHz		40		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit		15		ns
Rise Time	t _r	See specified Test Circuit		25		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit		90		ns
Fall Time	t _f	See specified Test Circuit		70		ns
Diode Forward Voltage	V _{SD} ///	I _S =-4A V _G S=0		-1.0	-1.5	V

Switching Time Test Circuit







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