



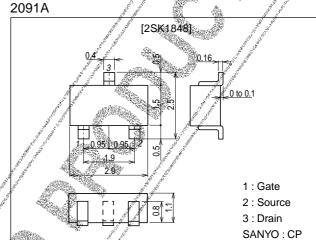
Ultrahigh-Speed Switching Applications

Features

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

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

D	Symbol	D-ti	1.114
Parameter	Symbol	Ratings	Unit
Drain-to-Source Voltage	V _{DS} s	60	V
Gate-to-Source Voltage	V _G S8	±15	V
Drain Current (DC)	/ 1/5	400	mA
Drain Current (pulse)	/ 1 _{DP} PW≤16µs duty cycle≤1%	1.6	Α
Allowable Power Dissipation	PD	250	mW
Channel Temperature	Toh	150	°C
Storage Temperature	/ Isig	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
1 alameter			min	typ	max	Offic
Drain-to-Source Breakdown Voltage	V _(BR) DSS	ID=1mA, VGS=0	60			V
Zero-Gate Votlage Drain Current	¹ DSS _a	V _{DS} =60V, V _{GS} =0			10	μA
Gate-to-Source Leakage Current	lgss/	√V _{GS} =±12V, V _{DS} =0			±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1mA	1.0		2.0	V
Forward Transfer Admittance	yfs∤	V _{DS} =10V, I _D =200mA	300	600		mS
Static Drain-to-Source On-State Resistance	RDS(on)1	I _D =200mA, V _{GS} =10V		0.9	1.2	Ω
Static Diani-to-Source Off-State Resistance	. RDS(on)2	I _D =200mA, V _{GS} =4V		1.2	1.6	Ω

Marking: LJ

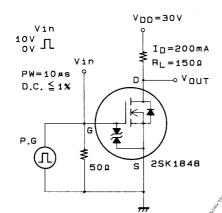
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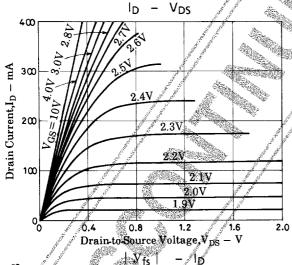
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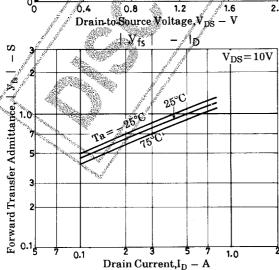
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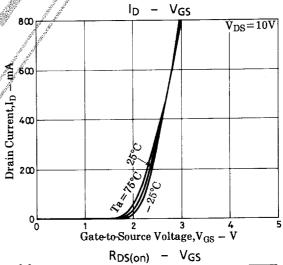
Parameter	Symbol	Conditions	Ratings			Unit
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		45		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		22		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		5		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit	100	5		ns
Rise Time	t _r	See specified Test Circuit	and the second	10		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit	11	35	Security Sec	ns
Fall Time	t _f	See specified Test Circuit	gi st A	25	Company of State	ns
Diode Forward Voltage	V _{SD}	I _S =400mA, V _{GS} =0	A.	0.9	Contract of the second	V

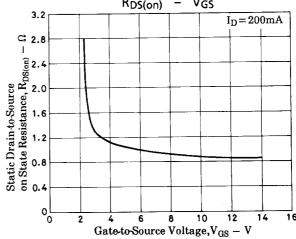
Switching Time Test Circuit

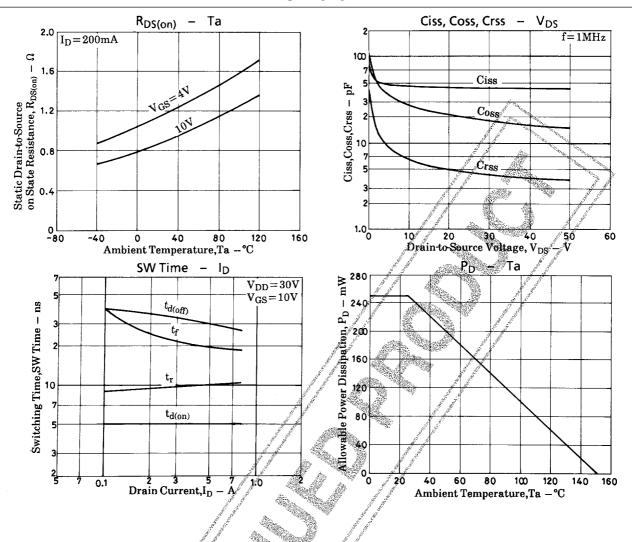












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