



Ultrahigh-Speed Switching Applications

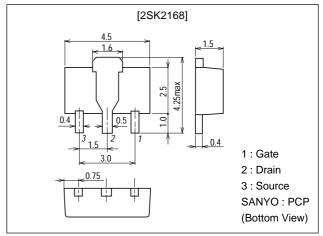
Features

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

Package Dimensions

unit:mm

2062A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		250	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	ID		800	mA
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	3.2	Α
Allowable Power Dissipation	PD	Tc=25°C	3.5	W
		Mounted on ceramic board (250mm ² ×0.8mm)	1.5	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oilit
Drain-to-Source Breakdown Voltage	V(BR)DSS	$I_D=1mA$, $V_{GS}=0$	250			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =250V, V _{GS} =0			100	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±18V, V _{DS} =0			±10	μΑ
Cutoff Voltage	V _{GS(off)}	V_{DS} =10V, I_D = 1mA	1.5		2.5	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =400mA	0.6	0.9		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =400mA, V _{GS} =10V		3.5	5	Ω

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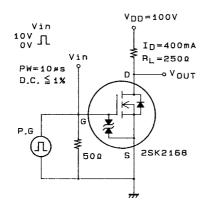
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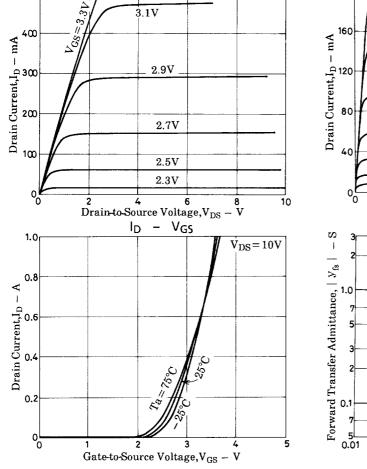
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	1 OIIII
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		80		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		20		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		8		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit		10		ns
Rise Time	t _r	See specified Test Circuit		10		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		50		ns
Fall Time	t _f	See specified Test Circuit		30		ns
Diode Forward Voltage	V _{SD}	I _S =800mA, V _{GS} =0		1.0		V

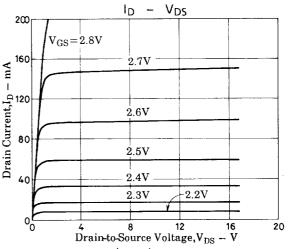
Switching Time Test Circuit

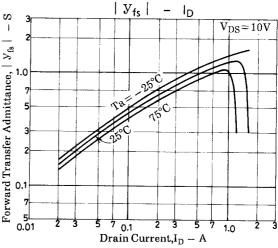
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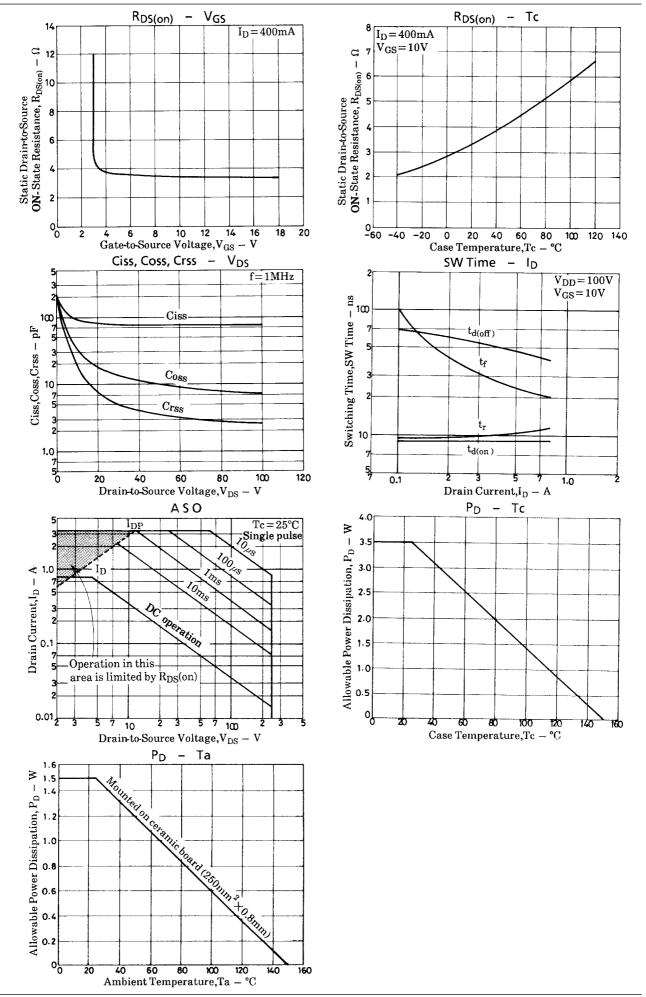


 $I_D - V_{DS}$









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