

2SK1464

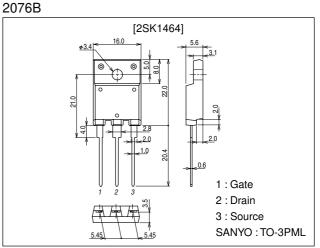
Ultrahigh-Speed Switching Applications

Features

- · Low ON-state resistance.
- · Ultrahigh-speed switching.
- \cdot Converters.

Package Dimensions

unit:mm



Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		900	V
Gate-to-Source Voltage	V _{GSS}		±30	V
Drain Current (DC)	۱ _D		8	А
Drain Current (Pulse)	I _{DP}	PW≤10µs, duty cycle≤1%	16	А
Allowable Power Dissipation	PD	Tc=25°C	80	W
			3.0	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Ratings		
typ	max	Unit
		V
	1.0	mA
	±100	nA
)	3.0	V
5.0		S
1.2	1.6	Ω
_	5.0	5.0

(Note) Be careful in handling the 2SK1464 because it has no protection diode between gate and source.

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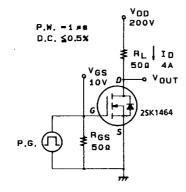
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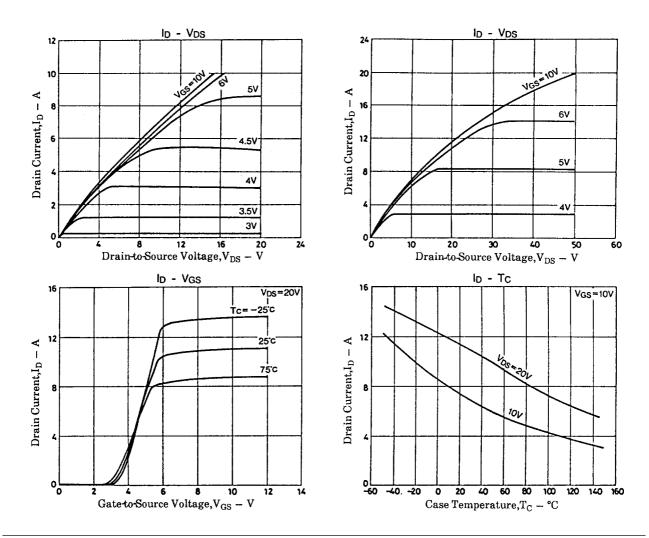
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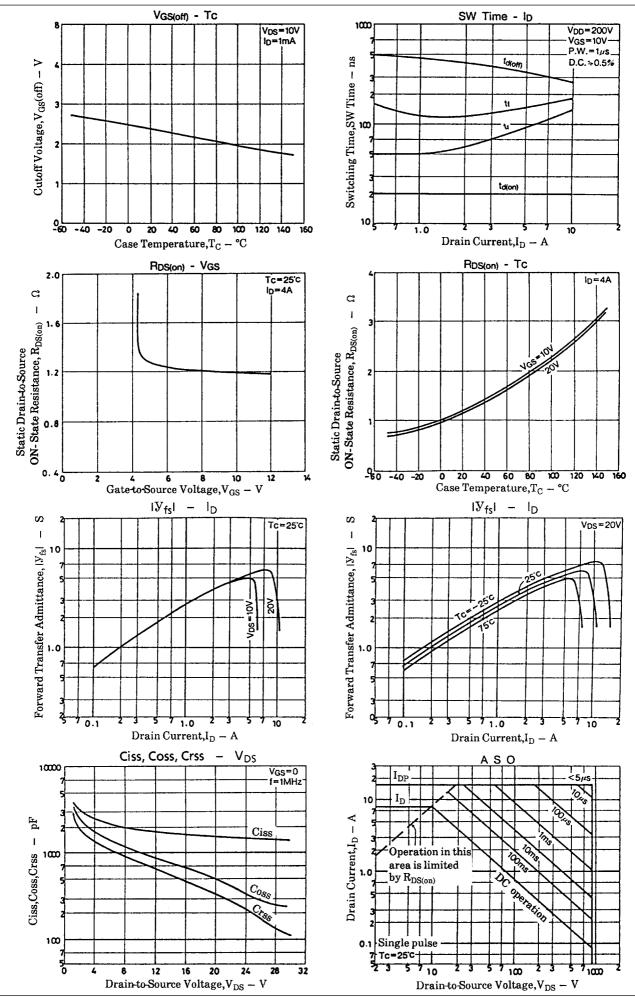
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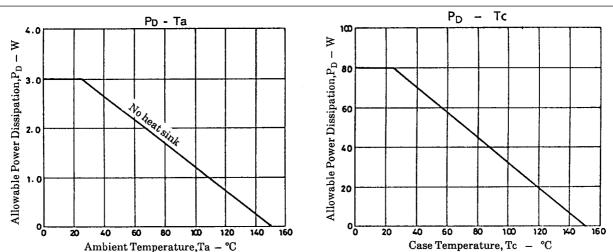
Parameter	Symbol	Conditions	Ratings			Unit
Falametei			min	typ	max	Unit
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		1600		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		500		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		350		pF
Turn-ON Delay Time	^t d(on)	$I_D=4A, V_{GS}=10V, V_{DD}=200V, R_{GS}=50\Omega$		20		ns
Rise Time	t _r	$I_D=4A$, $V_{GS}=10V$, $V_{DD}=200V$, $R_{GS}=50\Omega$		80		ns
Turn-OFF Delay Time	^t d(off)	$I_D=4A$, $V_{GS}=10V$, $V_{DD}=200V$, $R_{GS}=50\Omega$		350		ns
Fall Time	t _f	$I_D=4A$, $V_{GS}=10V$, $V_{DD}=200V$, $R_{GS}=50\Omega$		150		ns
Diode Forward Voltage	V _{SD}	I _S =8A, V _{GS} =0			1.8	V

Switching Time Test Circuit









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