

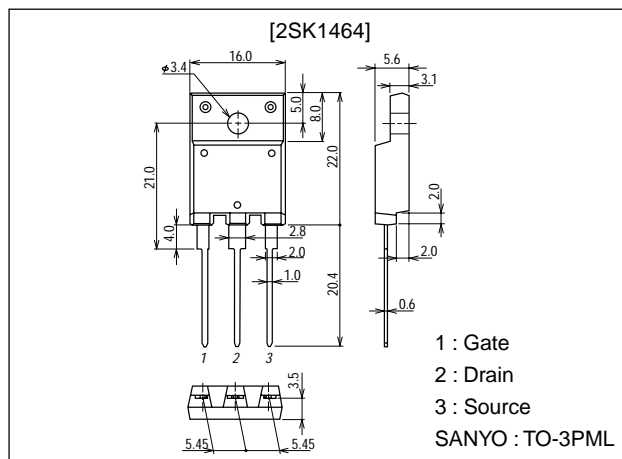
SANYO**2SK1464****Ultrahigh-Speed Switching Applications****Features**

- Low ON-state resistance.
- Ultrahigh-speed switching.
- Converters.

Package Dimensions

unit:mm

2076B

**Specifications****Absolute Maximum Ratings at Ta = 25°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)	I_D		8	A
Drain Current (Pulse)	I_{DP}	$PW \leq 10\mu s$, duty cycle $\leq 1\%$	16	A
Allowable Power Dissipation	P_D	$T_c = 25^\circ C$	80	W
			3.0	W
Channel Temperature	T_{ch}		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 1mA$, $V_{GS} = 0$	900			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 900V$, $V_{GS} = 0$			1.0	mA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = \pm 30V$, $V_{DS} = 0$			± 100	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V$, $I_D = 1mA$	2.0		3.0	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 20V$, $I_D = 4A$	2.5	5.0		S
Static Drain-to-Source ON-State Resistance	$R_{DS(on)}$	$I_D = 4A$, $V_{GS} = 10V$		1.2	1.6	Ω

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

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■ Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

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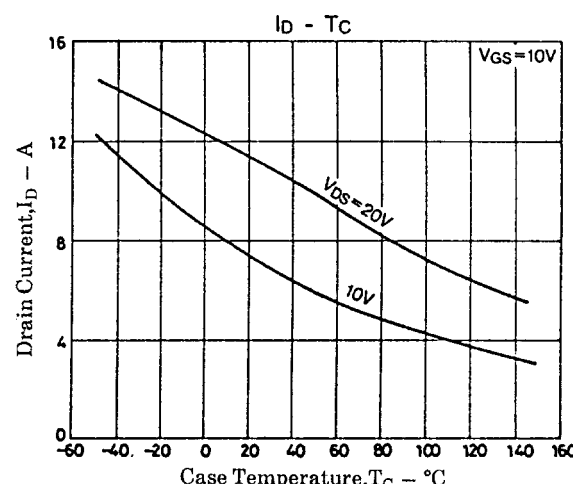
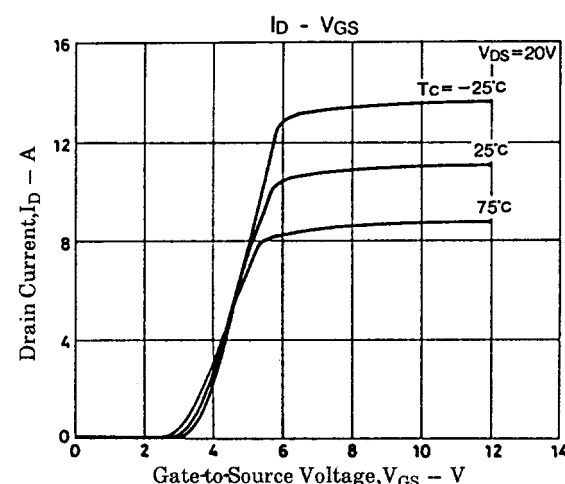
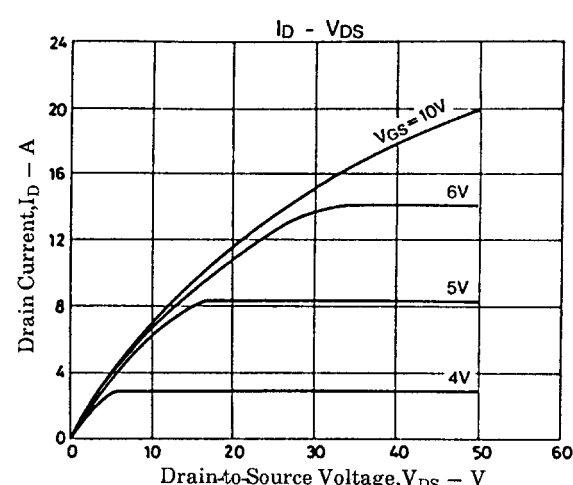
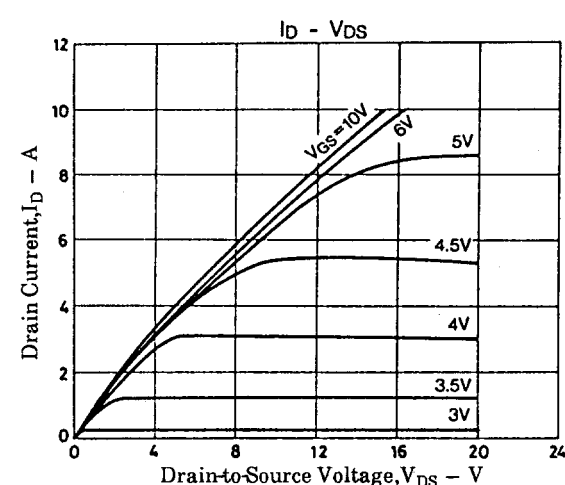
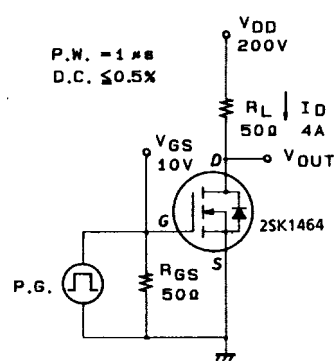
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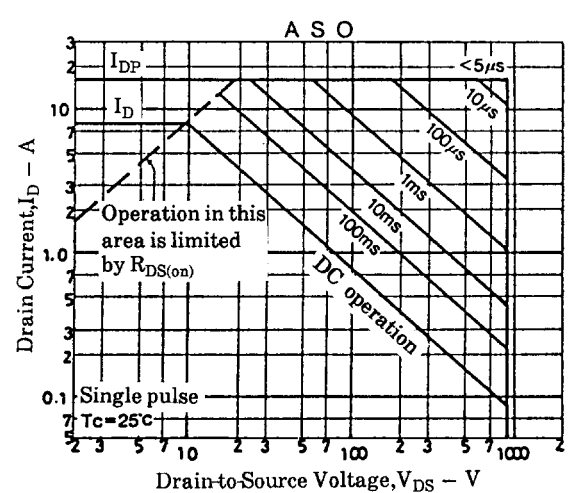
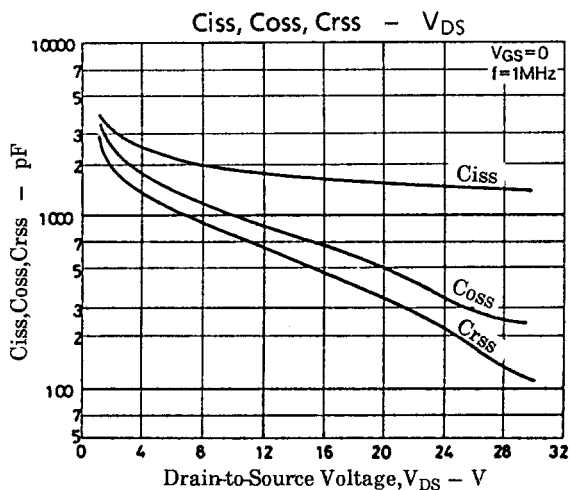
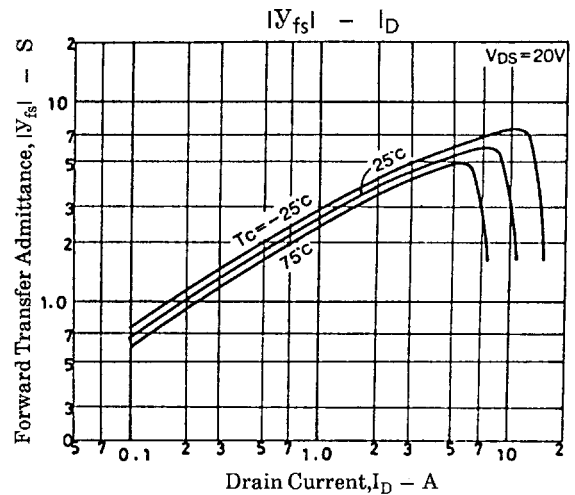
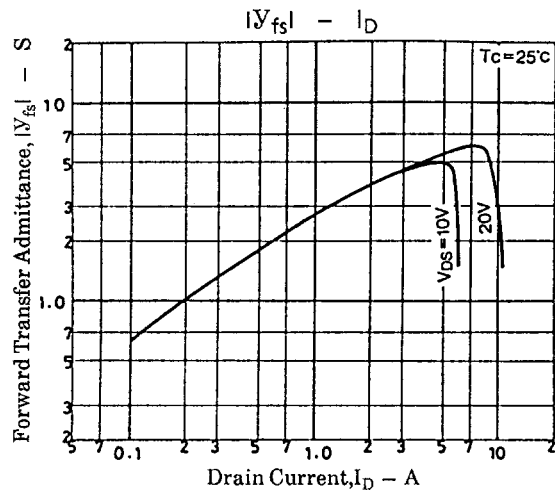
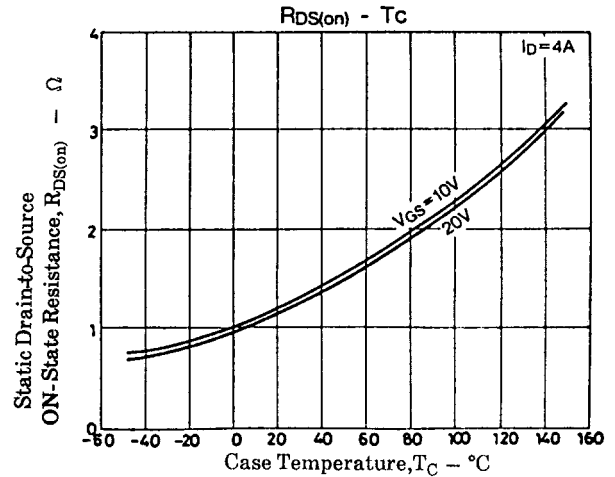
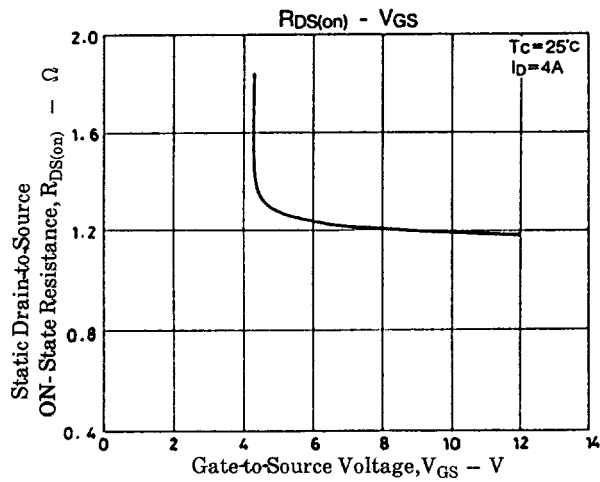
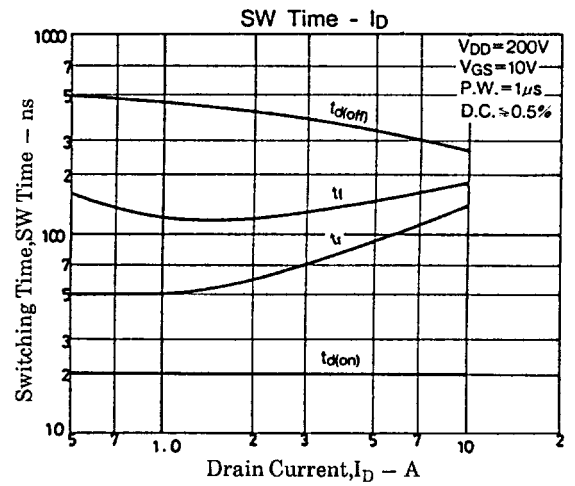
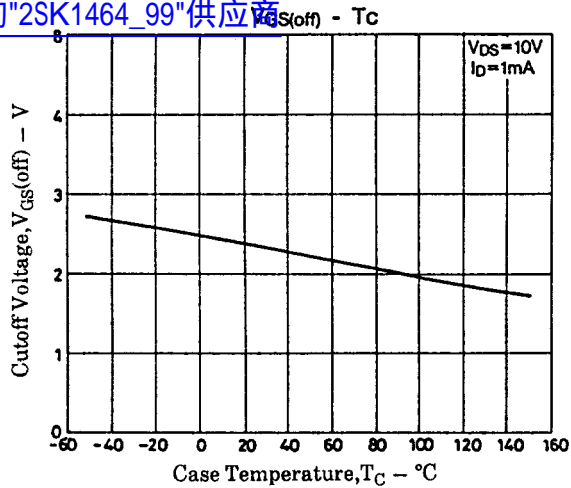
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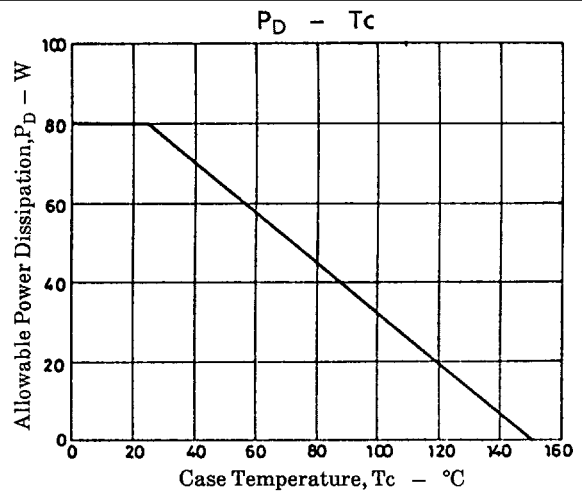
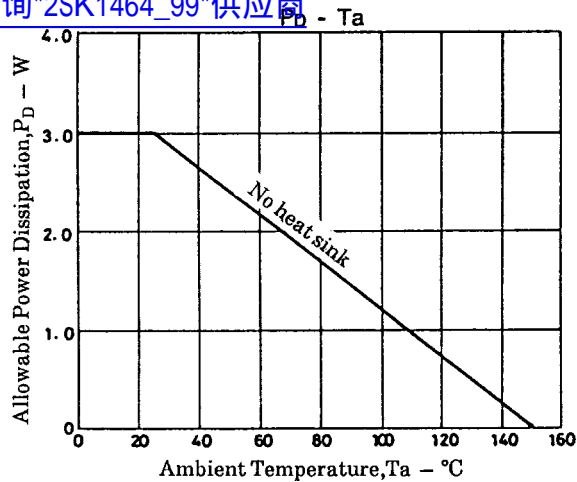
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	C_{iss}	$V_{DS}=20V, f=1MHz$		1600		pF
Output Capacitance	C_{oss}	$V_{DS}=20V, f=1MHz$		500		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=20V, f=1MHz$		350		pF
Turn-ON 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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