Ordering number:EN3508A

N-Channel Silicon MOSFET

2SK1467

Ultrahigh-Speed Switching Applications

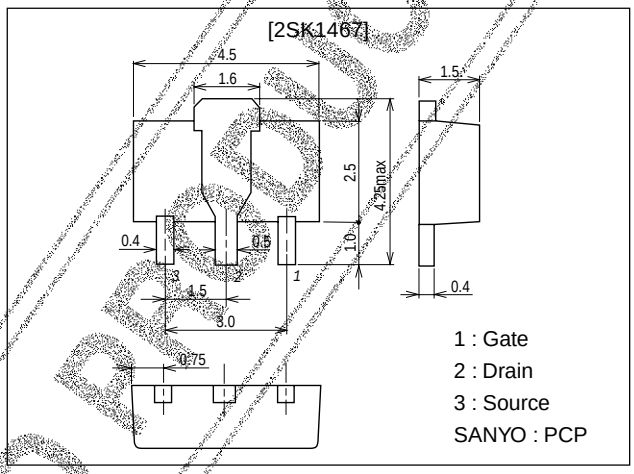
Features

- 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}		30	V
Gate-to-Source Voltage	V_{GSS}		±15	V
Drain Current (DC)	I_D		2	A
Drain Current (pulse)	I_{DP}		8	A
Allowable Power Dissipation	P_D	Tc=25˚C	3.5	W
		Mounted on a ceramic board (250mm²×0.8mm)	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	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	I_D=1mA, V_{GS}=0	30			V
Zero-Gate Votlage Drain Current	I_{DSS}	V_{DS}=30V, V_{GS}=0			100	μA
Gate-to-Source Leakage Current	I_{GSS}	V_{GS}=±12V, V_{DS}=0			±10	μA
Cutoff Voltage	$V_{GS(off)}$	V_{DS}=10V, I_D=1mA	1.0		2.0	V
Forward Transfer Admittance	|yfs|	V_{DS}=10V, I_D=1A	1.2	2.0		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)}1$	I_D=1A, V_{GS}=10V		0.2	0.3	Ω
	$R_{DS(on)}2$	I_D=1A, V_{GS}=4V		0.3	0.45	Ω

Marking : KC

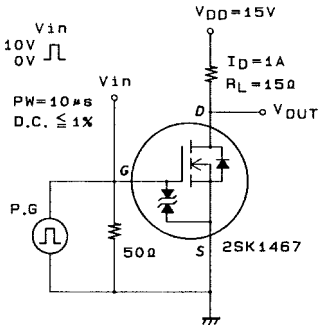
Continued on next page.

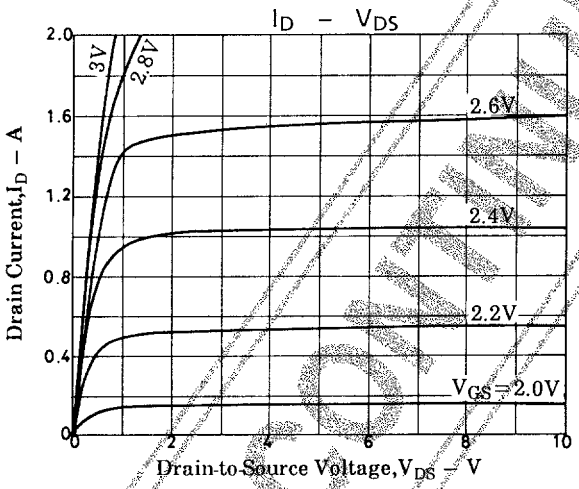
SANYO Electric Co.,Ltd. Semiconductor Company
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

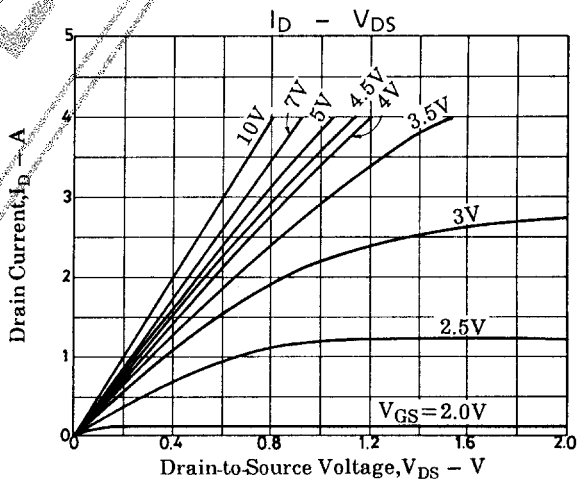
Continued from preceding page.

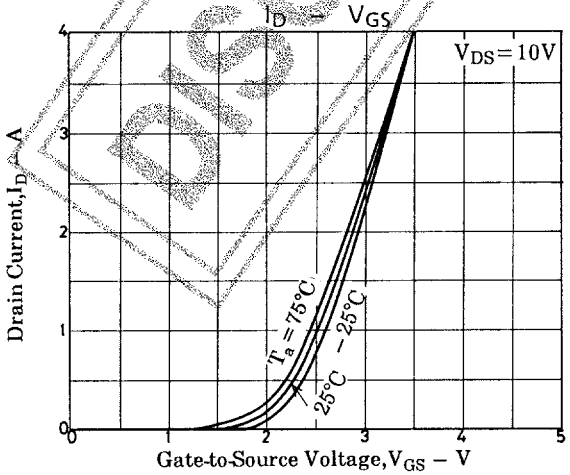
Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	Ciss	V_{DS}=10V, f=1MHz	170	pF
Output Capacitance	Coss	V_{DS}=10V, f=1MHz	100	pF
Reverse Transfer Capacitance	Crss	V_{DS}=10V, f=1MHz	30	pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit	7	ns
Rise Time	t_r	See specified Test Circuit	11	ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit	35	ns
Fall Time	t_f	See specified Test Circuit	25	ns
Diode Forward Voltage	V_{SD}	I_S=2A, V_{GS}=0	1.0	V

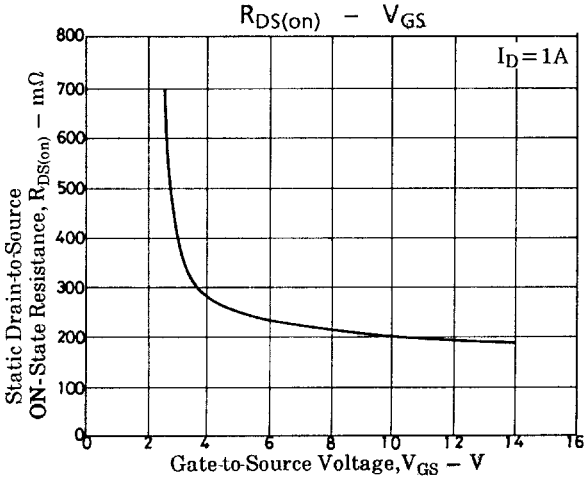
Switching Time Test Circuit

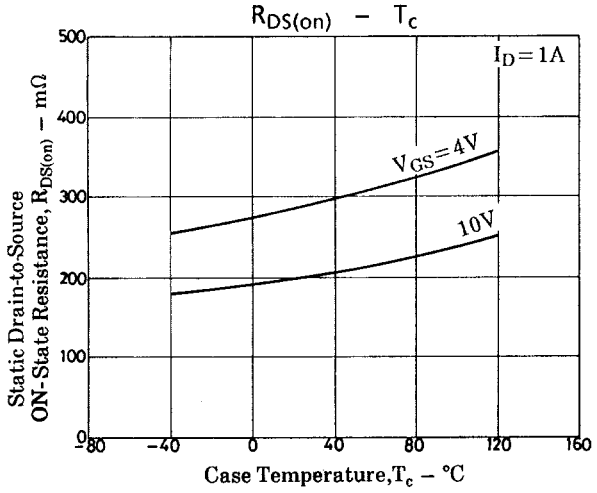


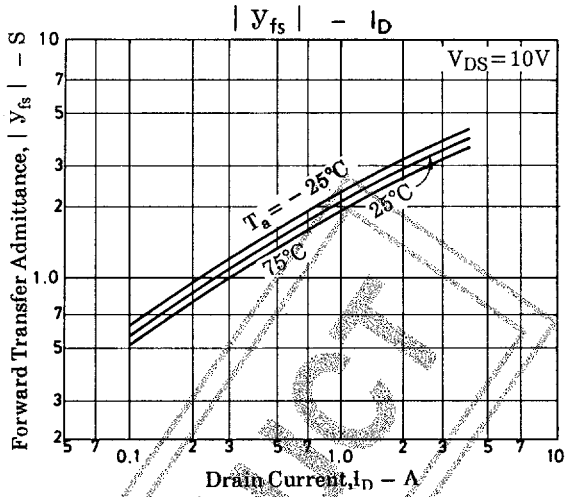


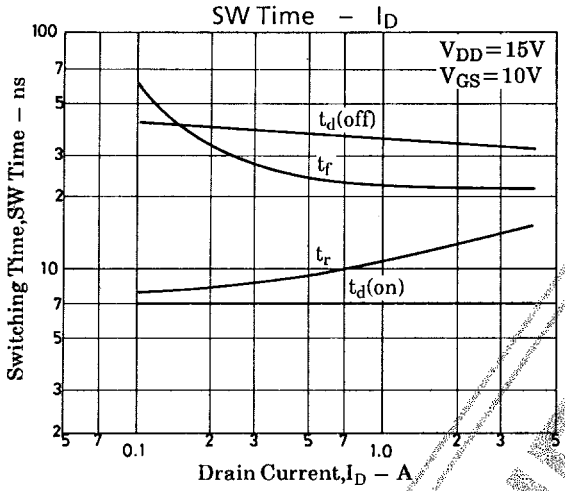


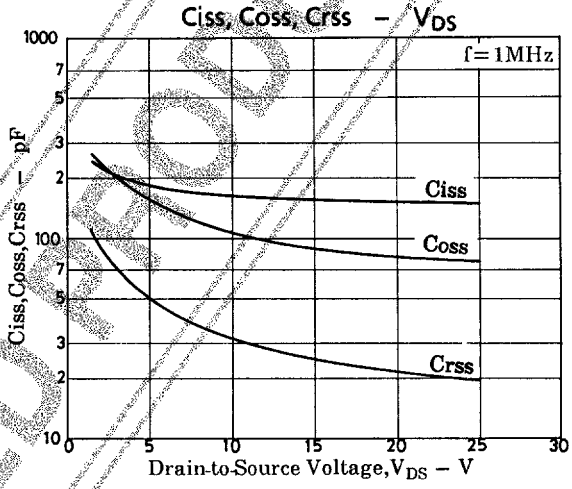


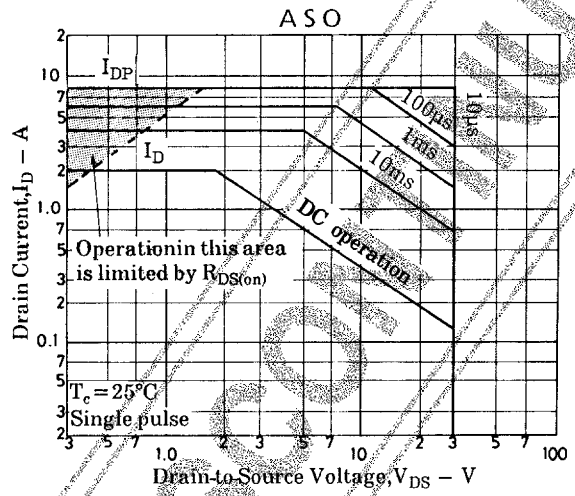


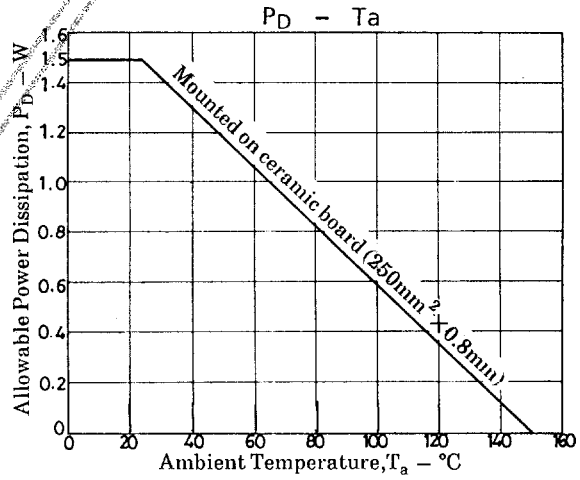


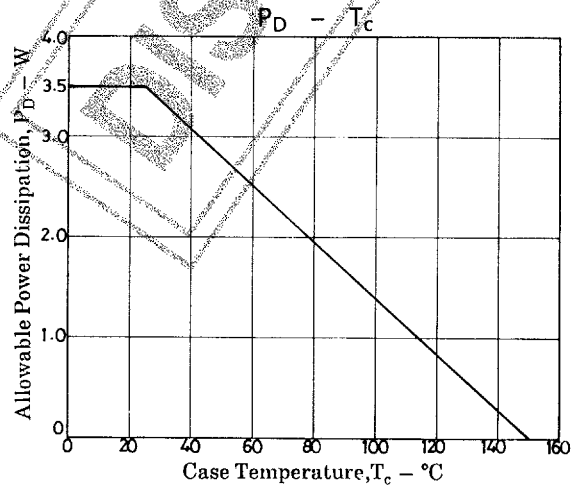












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