



Ultrahigh-Speed Switching Applications

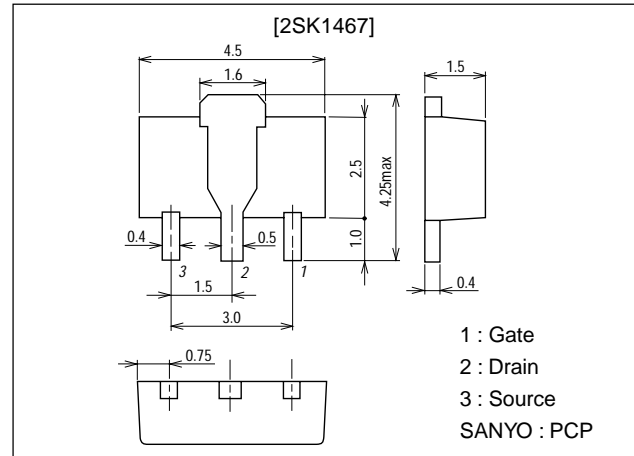
Features

- 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_{DS}		30	V
Gate-to-Source Voltage	V_{GS}		±15	V
Drain Current (DC)	I_D		2	A
Drain Current (pulse)	I_{DP}		8	A
Allowable Power Dissipation	P_D	$T_c=25^\circ\text{C}$	3.5	W
		Mounted on a ceramic board (250mm ² ×0.8mm)	1.5	W
Channel Temperature	T_{ch}		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=1\text{mA}, V_{GS}=0$	30			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=30\text{V}, V_{GS}=0$			100	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 12\text{V}, V_{DS}=0$			±10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10\text{V}, I_D=1\text{mA}$	1.0		2.0	V
Forward Transfer Admittance	y _{fs}	$V_{DS}=10\text{V}, I_D=1\text{A}$	1.2	2.0		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)1}$	$I_D=1\text{A}, V_{GS}=10\text{V}$		0.2	0.3	Ω
	$R_{DS(on)2}$	$I_D=1\text{A}, V_{GS}=4\text{V}$		0.3	0.45	Ω

Marking : KC

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SANYO Electric Co., Ltd. Semiconductor Company

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

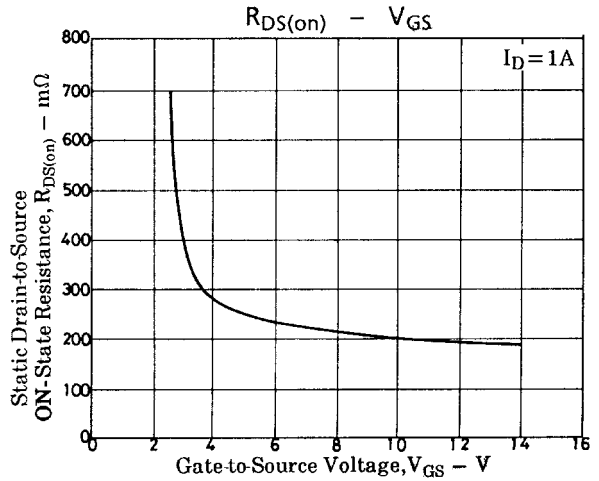
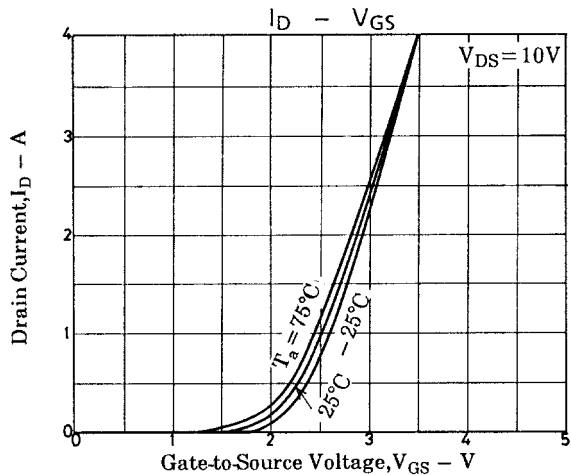
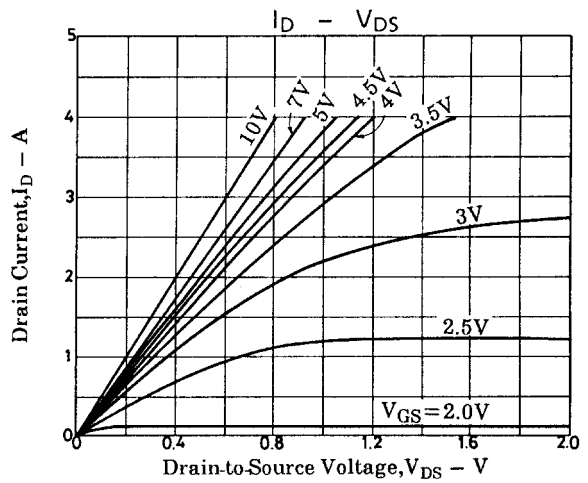
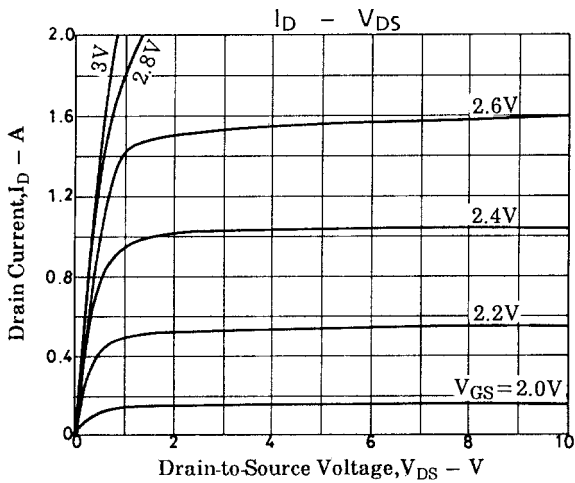
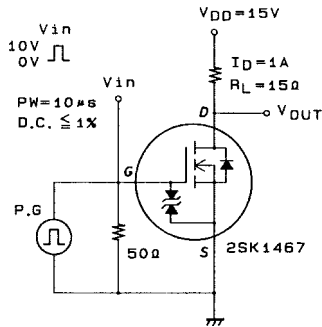
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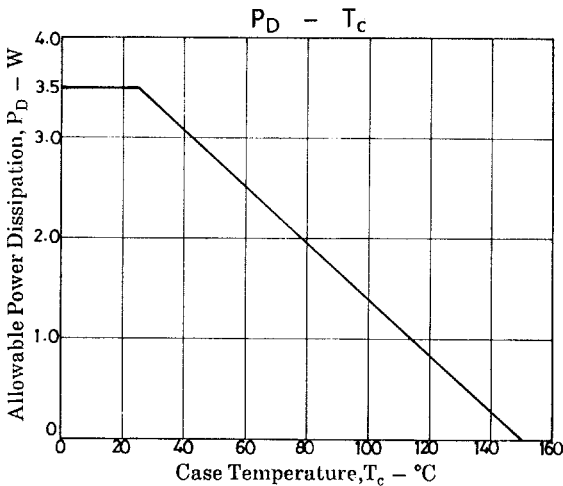
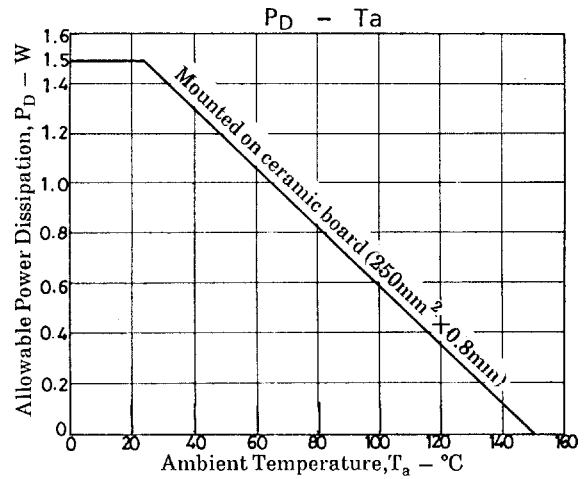
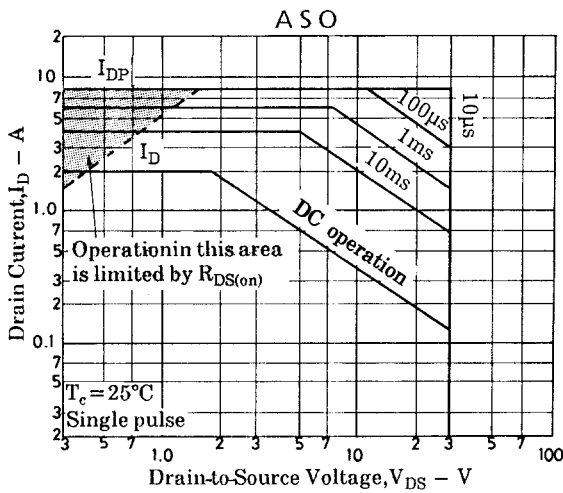
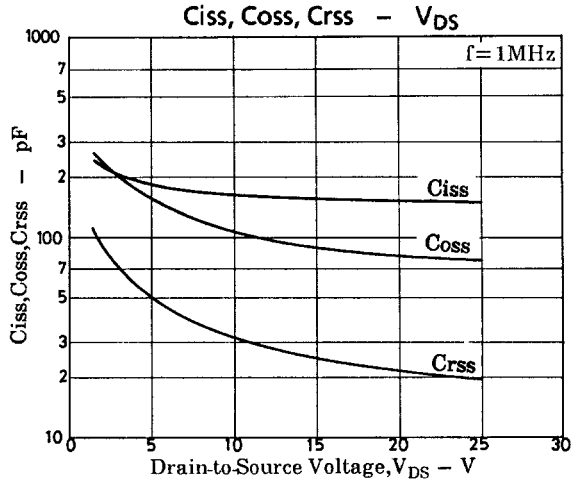
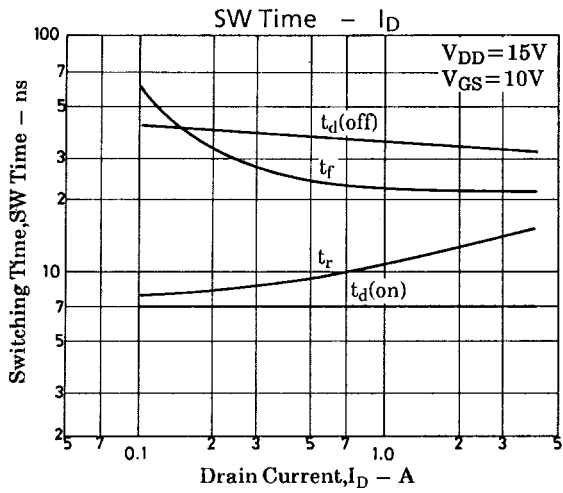
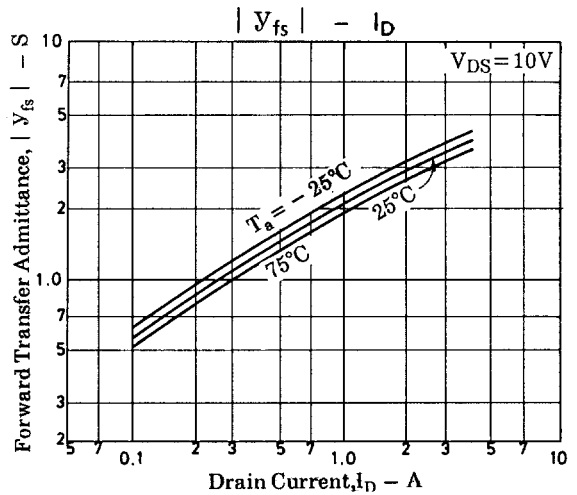
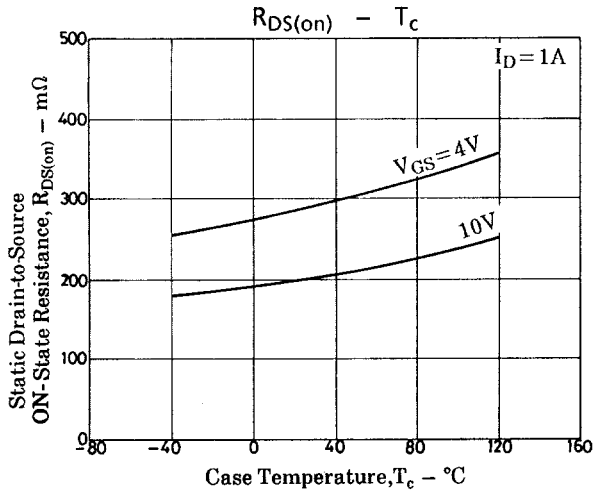
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Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	C_{iss}	$V_{DS}=10V, f=1MHz$	170	pF
Output Capacitance	C_{oss}	$V_{DS}=10V, f=1MHz$	100	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=10V, f=1MHz$	30	pF
Turn-ON Delay Time	$t_{d(on)}$	See 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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