

**2SK1467**

Ultrahigh-Speed Switching Applications

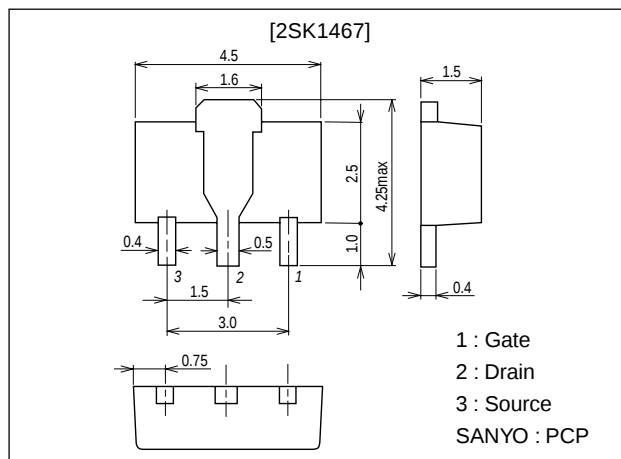
Features

- 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 (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	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=1mA, V_{GS}=0$	30			V
Zero-Gate Voltage 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	y _{fs}	$V_{DS}=10V, I_D=1A$	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

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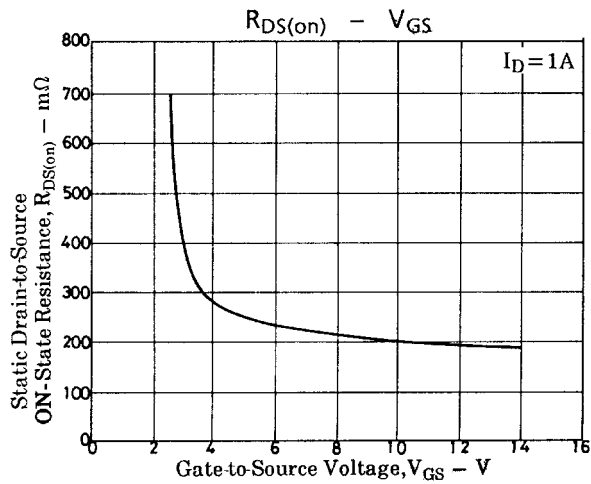
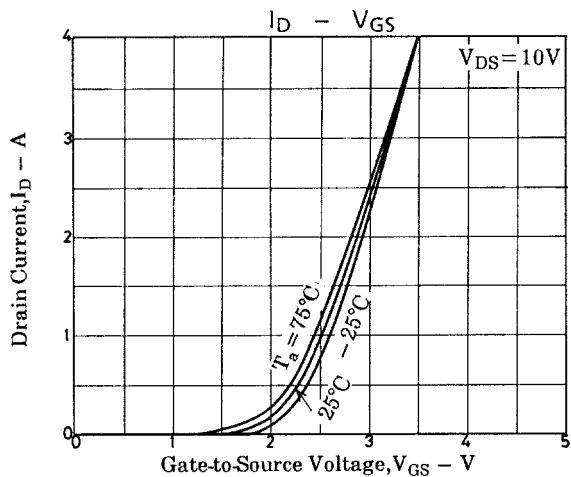
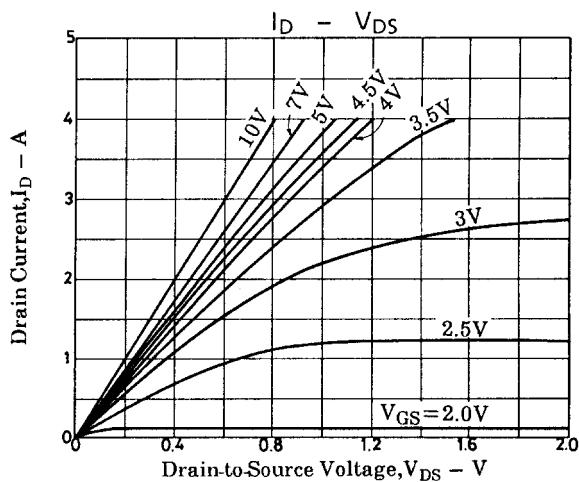
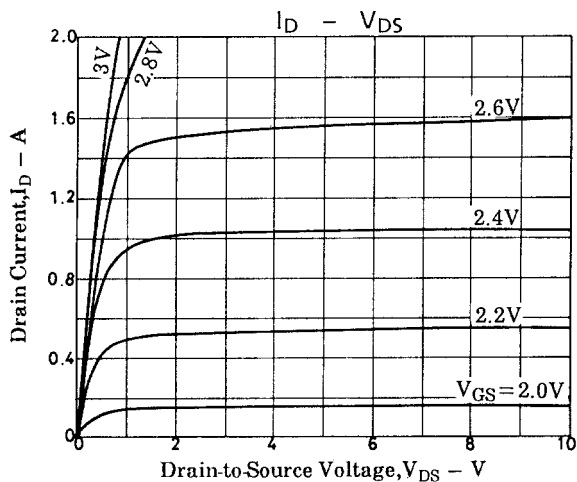
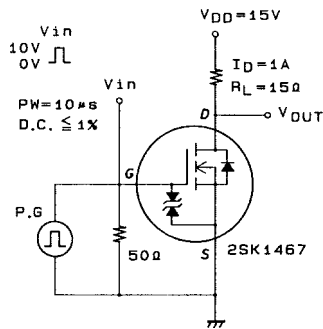
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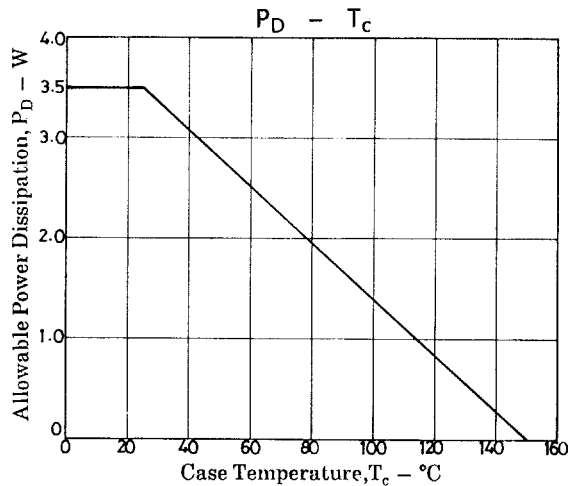
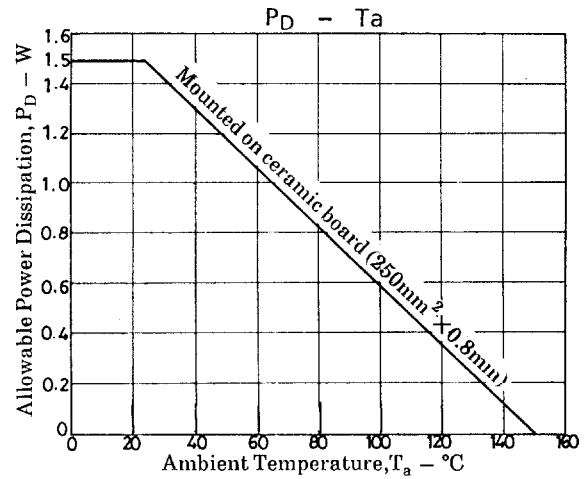
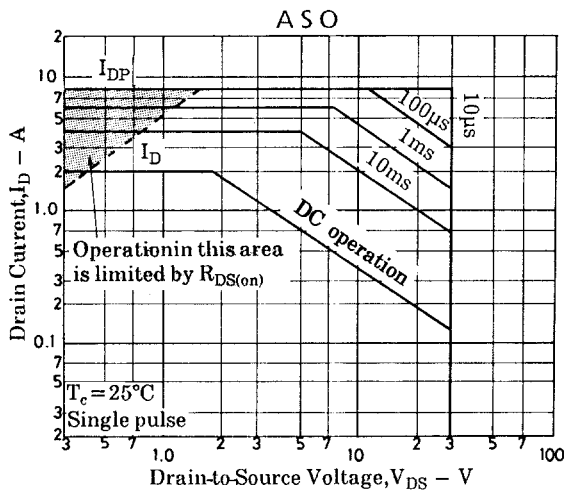
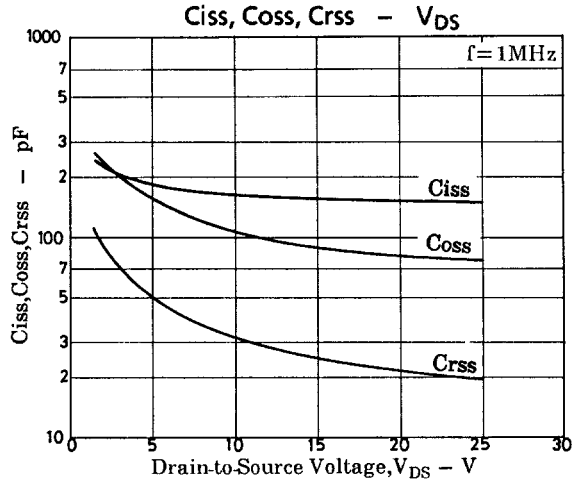
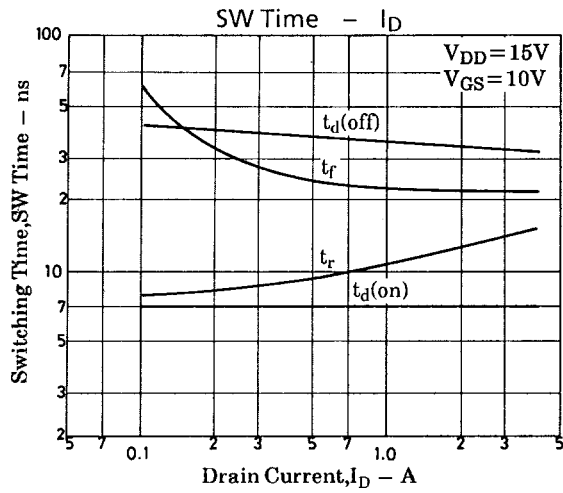
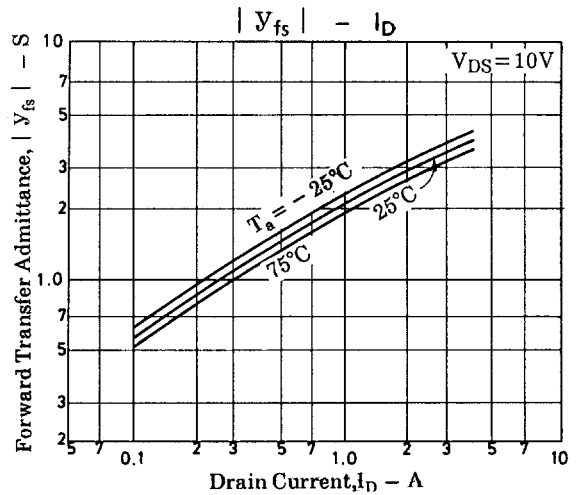
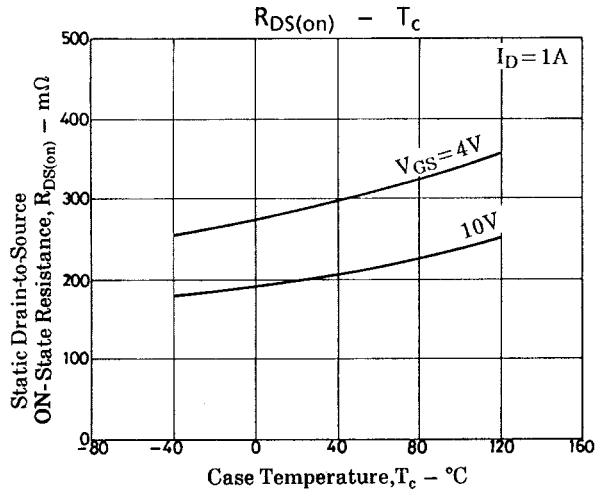
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Parameter	Symbol	Conditions	Ratings		Unit
Input Capacitance	Ciss	$V_{DS}=10V, f=1MHz$	170		pF
Output Capacitance	Coss	$V_{DS}=10V, f=1MHz$	100		pF
Reverse Transfer Capacitance	Crss	$V_{DS}=10V, f=1MHz$	30		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified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