



**Ultrahigh-Speed Switching Applications**

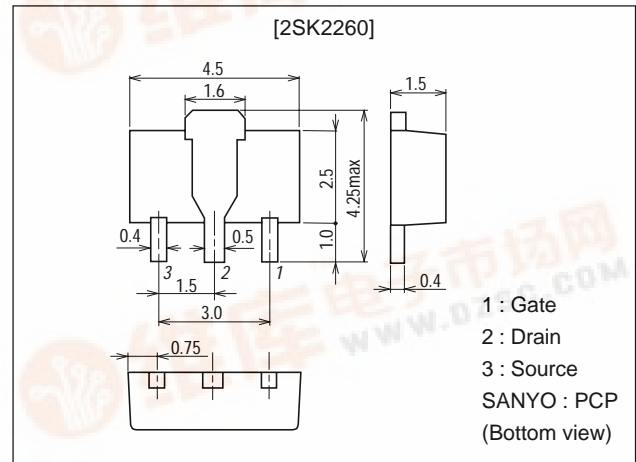
**Features**

- 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	$V_{DSS}$		150	V
Gate-to-Source Voltage	$V_{GSS}$		$\pm 20$	V
Drain Current (DC)	$I_D$		1.2	A
Drain Current (Pulse)	$I_{DP}$	$PW \leq 10\mu s$ , duty cycle $\leq 1\%$	4.8	A
Allowable Power Dissipation	$P_D$	$T_c = 25^\circ C$	3.5	W
		Mounted on ceramic board (250mm <sup>2</sup> × 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	$V_{(BR)DSS}$	$I_D = 1mA$ , $V_{GS} = 0$	150			V
Zero-Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = 150V$ , $V_{GS} = 0$			100	$\mu A$
Gate-to-Source Leakage Current	$I_{GSS}$	$V_{GS} = \pm 18V$ , $V_{DS} = 0$			$\pm 10$	$\mu A$
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V$ , $I_D = 1mA$	1.5		2.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10V$ , $I_D = 600mA$	0.8	1.1		S
Static Drain-to-Source ON-State Resistance	$R_{DS(on)}$	$I_D = 600mA$ , $V_{GS} = 10V$	1.6	2.2		$\Omega$

Marking : KO

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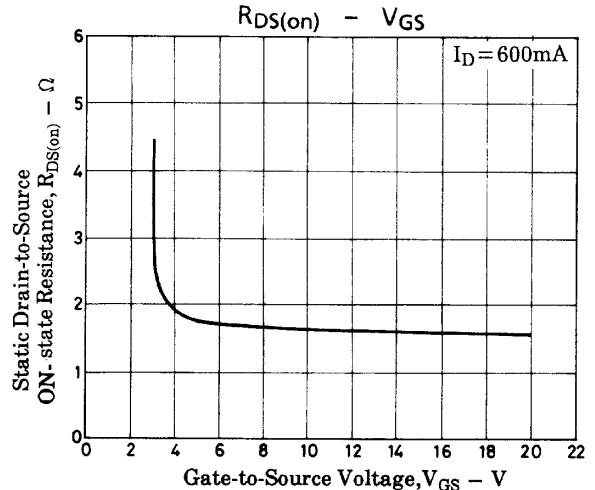
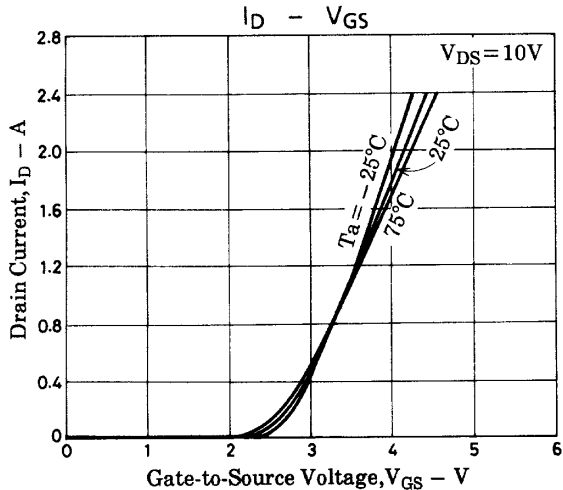
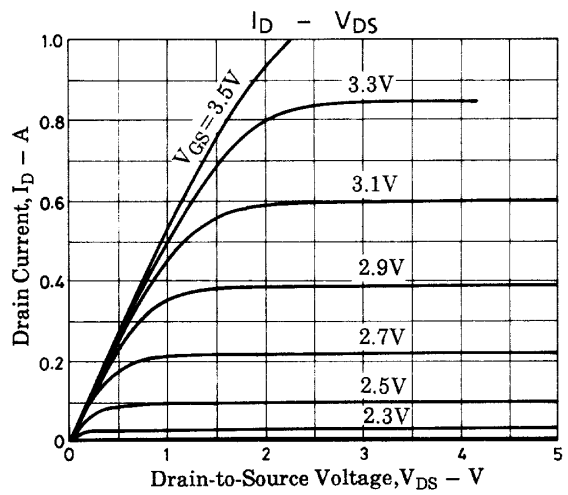
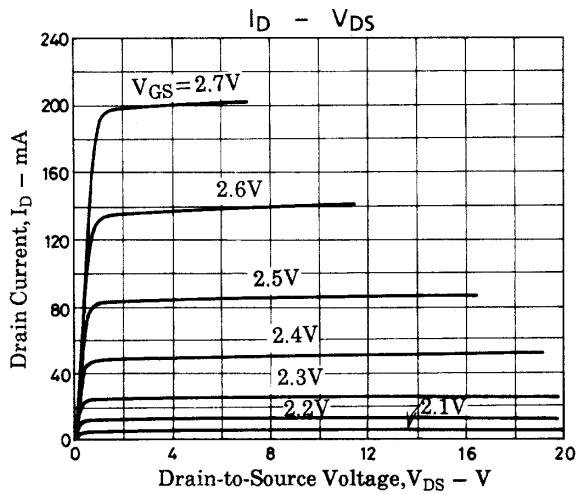
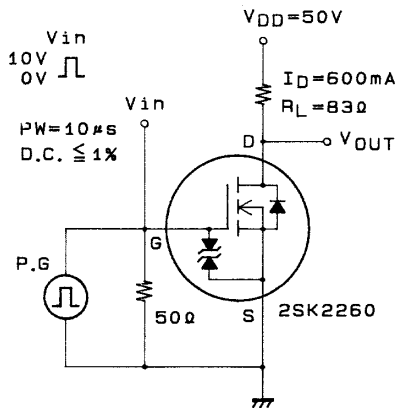


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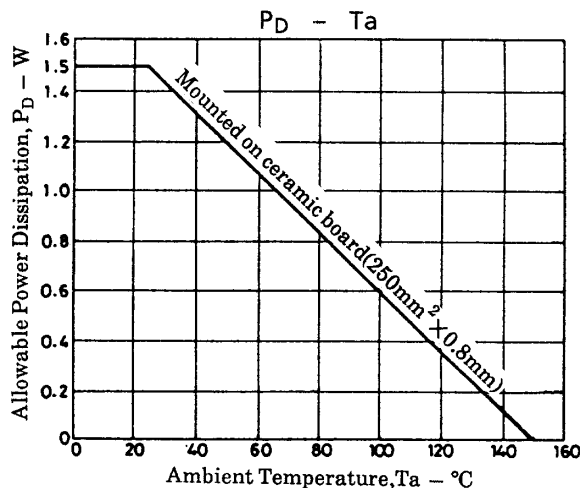
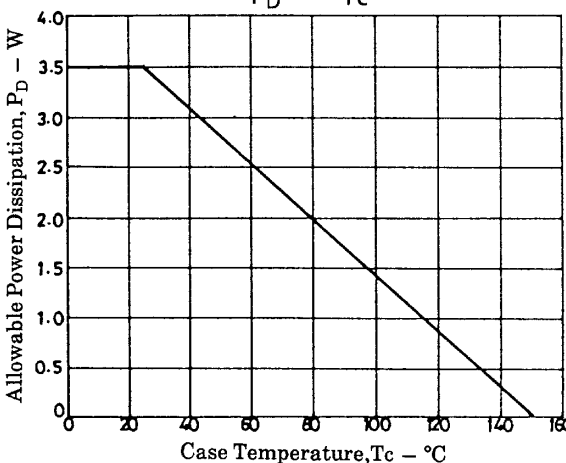
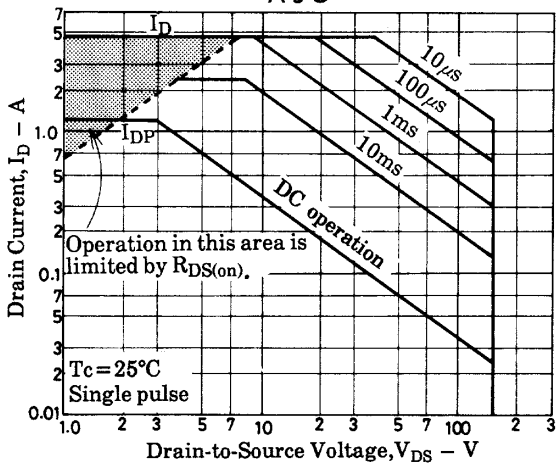
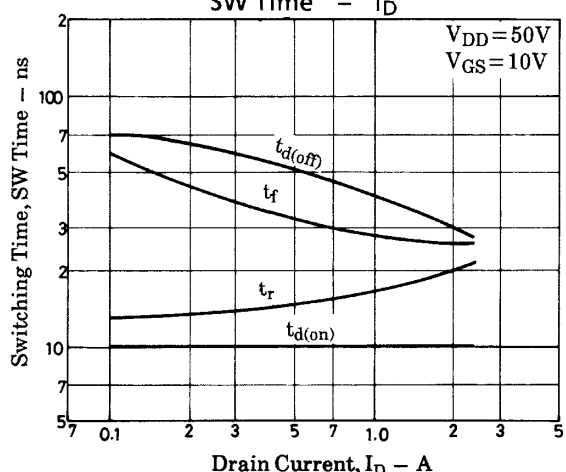
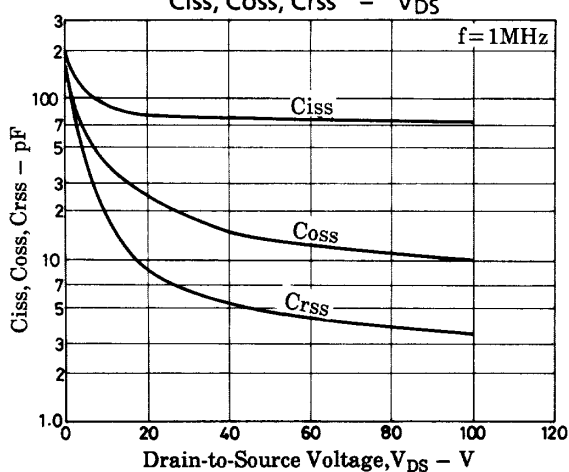
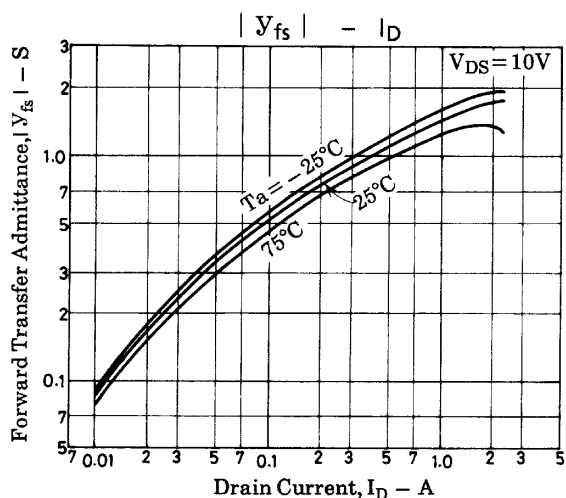
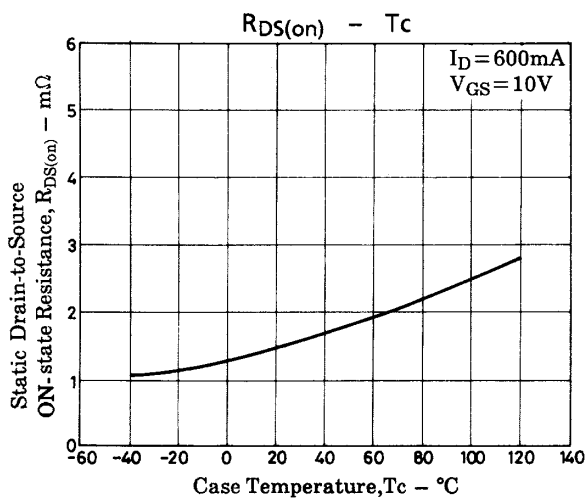
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	$C_{iss}$	$V_{DS}=20V, f=1MHz$		80		pF
Output Capacitance	$C_{oss}$	$V_{DS}=20V, f=1MHz$		25		pF
Reverse Transfer Capacitance	$C_{rss}$	$V_{DS}=20V, f=1MHz$		8.5		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit		10		ns
Rise Time	$t_r$	See specified Test Circuit		15		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit		50		ns
Fall Time	$t_f$	See specified Test Circuit		30		ns
Diode Forward Voltage	$V_{SD}$	$I_S=1.2A, V_{GS}=0$		1.0		V

## Switching Time Test Circuit



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## 2SK2260

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