

**2SJ416**

Ultrahigh-Speed Switching Applications

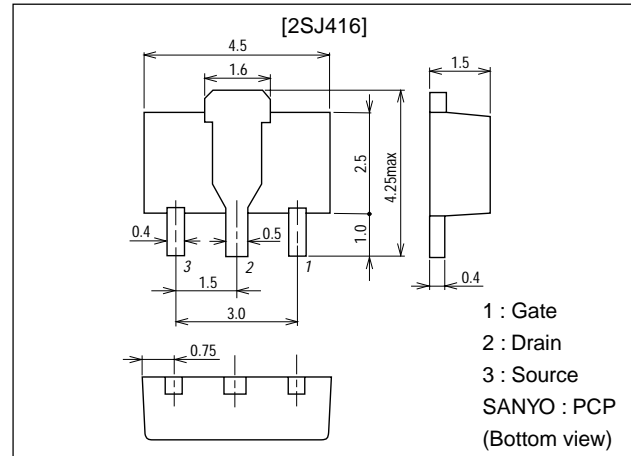
Features

- Low ON-resistance.
- Ultrahigh-speed switching.
- 4V 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}		±20	V
Drain Current (DC)	I_D		-2	A
Drain Current (Pulse)	I_{DP}	$PW \leq 10\mu s$, duty cycle $\leq 1\%$	-8	A
Allowable Power Dissipation	P_D	Mounted on ceramic board (250mm ² ×0.8mm)	1.5	W
		$T_c = 25^\circ C$	3.5	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	
Input Capacitance	C_{iss}	$V_{DS} = -10V$, $f = 1MHz$		170	440	pF
Output Capacitance	C_{oss}	$V_{DS} = -10V$, $f = 1MHz$		120	650	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = -10V$, $f = 1MHz$		30		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit		10		ns
Rise Time	t_r	See specified Test Circuit		20		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit		110		ns
Fall Time	t_f	See specified Test Circuit		75		ns
Diode Forward Voltage	V_{SD}	$I_S = -2A$, $V_{GS} = 0$		-1.0	-1.2	V

Marking : JJ

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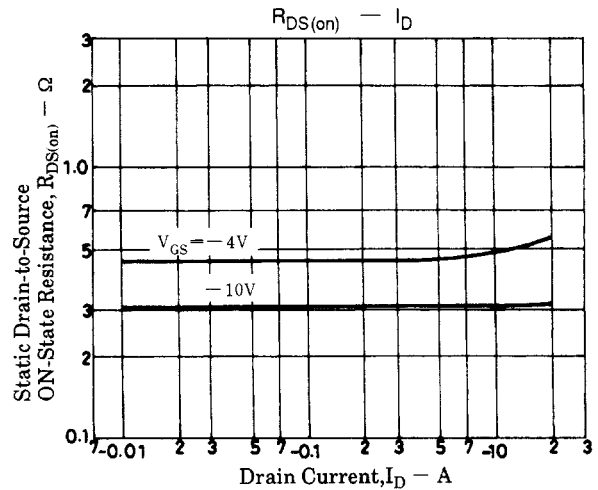
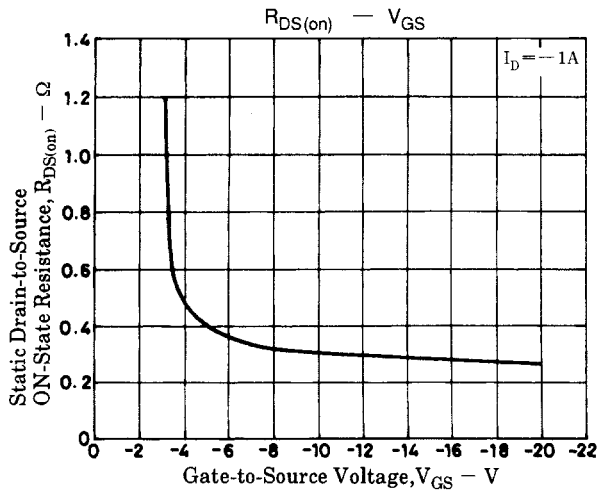
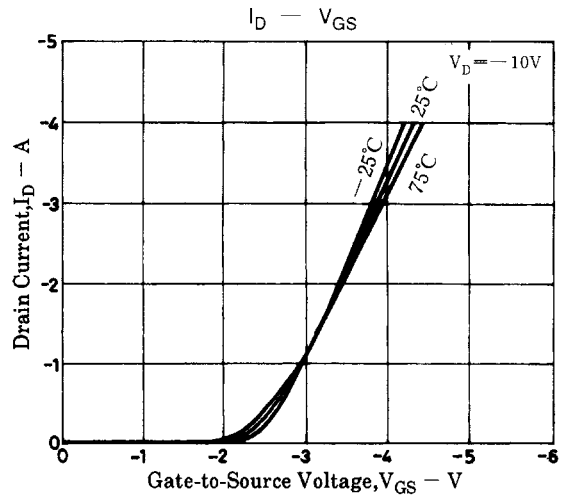
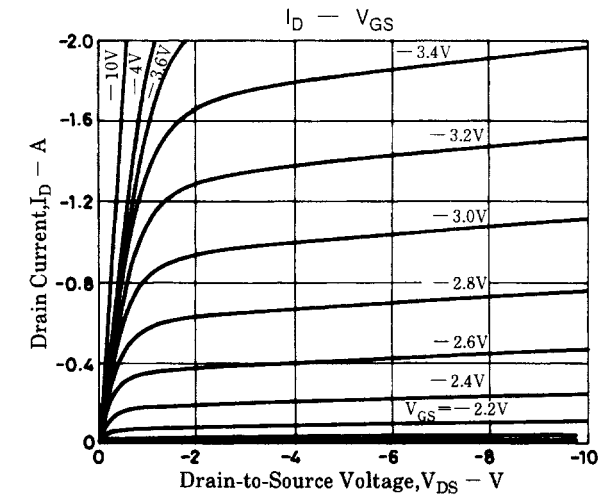
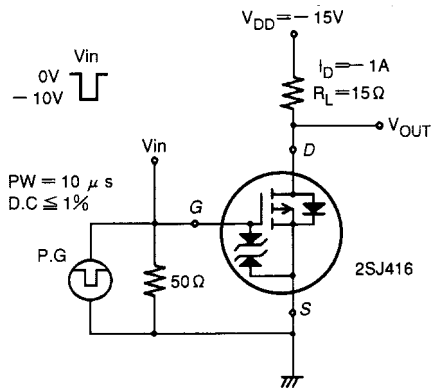
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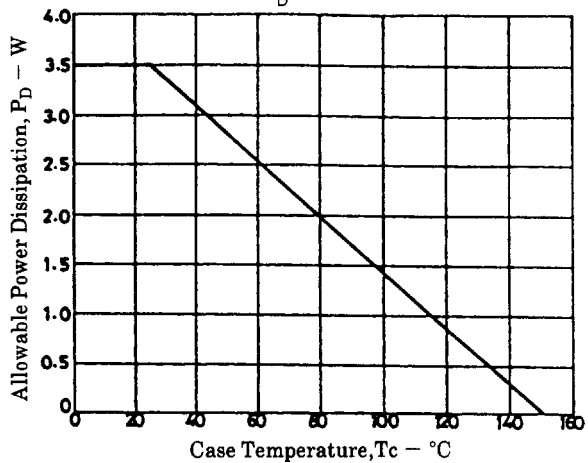
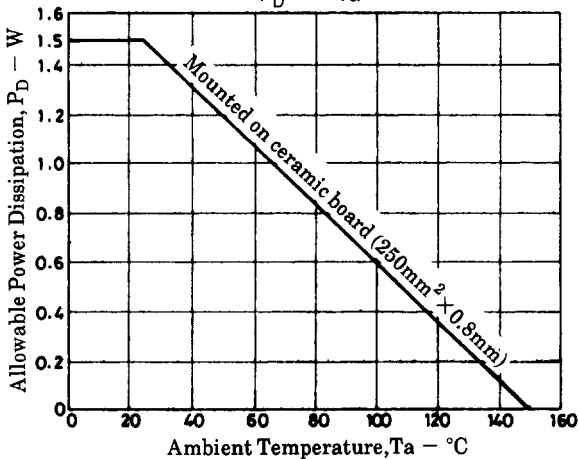
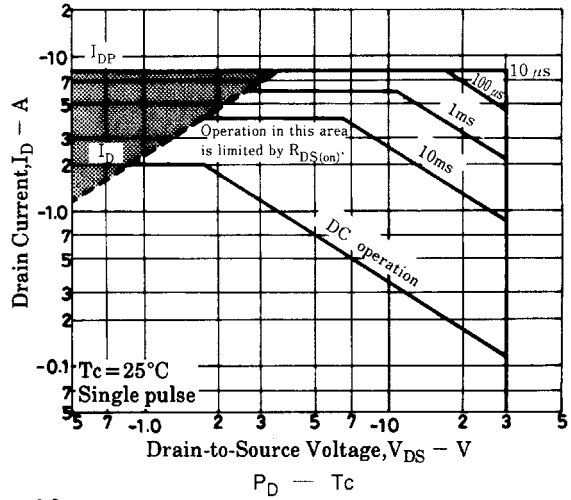
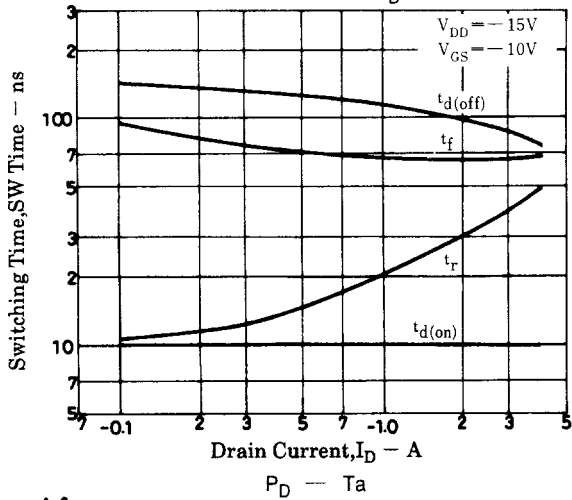
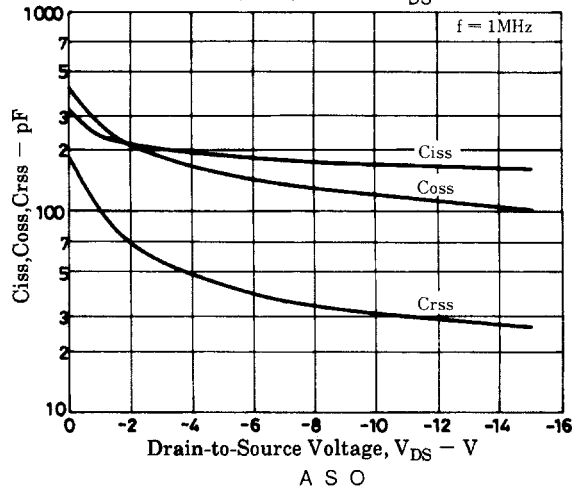
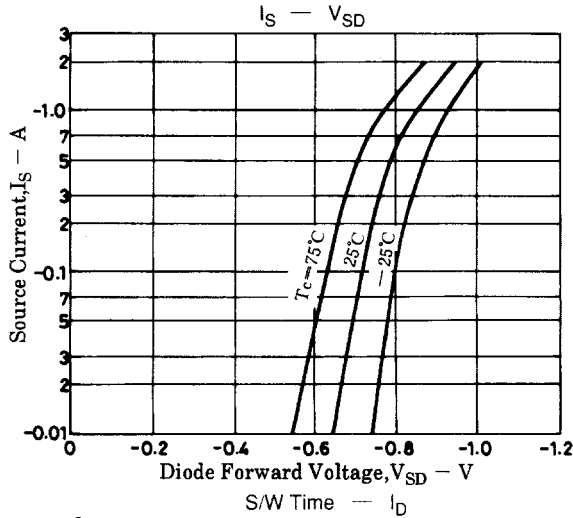
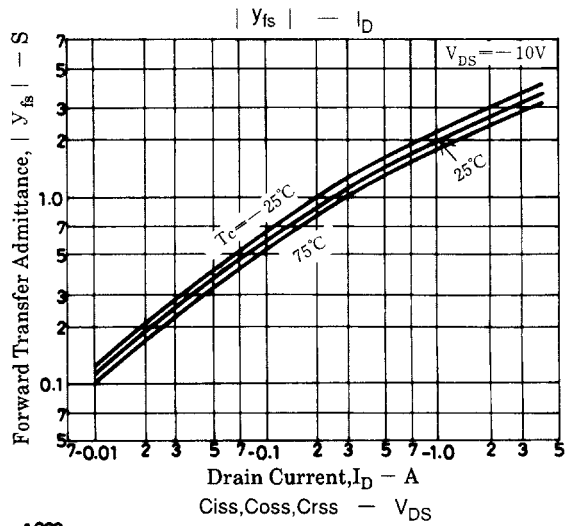
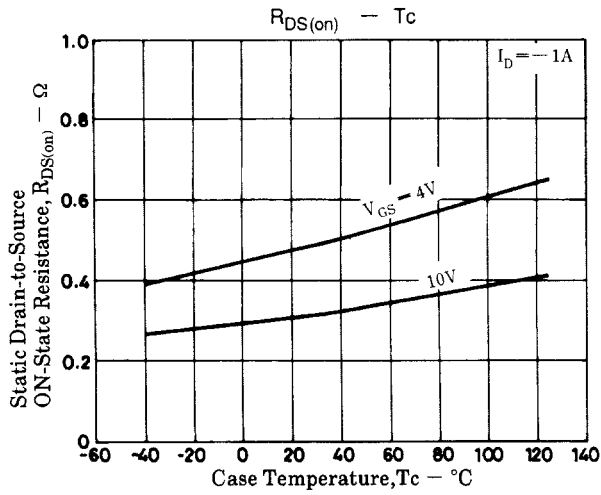
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Switching Time Test Circuit



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