

SANYO	No.5266	2SJ416
		P-Channel Silicon MOSFET

Ultrahigh-Speed Switching Applications

Features

- Low ON-resistance.
- Ultrahigh-speed switching.
- 4V drive.

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain-to-Source Voltage	V_{DSS}	-30	V
Gate-to-Source Voltage	V_{GSS}	±20	V
Drain Current(DC)	I_D	-2	A
Drain Current(Pulse)	I_{DP}	-8	A
Allowable Power Dissipation	P_D	1.5	W
		3.5	W
Channel Temperature	T_{ch}	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

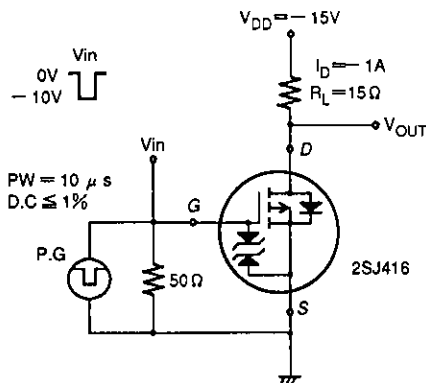
$PW \leq 10\mu s$, duty cycle $\leq 1\%$
 Mounted on ceramic board (250mm² × 0.8mm)
 $T_c = 25^\circ C$

Electrical Characteristics at Ta = 25°C

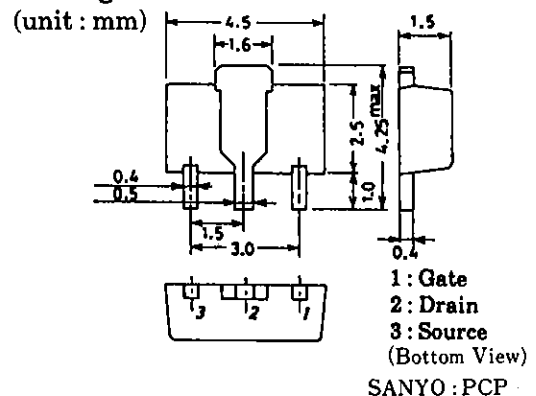
			min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1mA, V_{GS} = 0$	-30			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -30V, V_{GS} = 0$			-100	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = \pm 16V, V_{DS} = 0$			±10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = -10V, I_D = -1mA$	-1.0		-2.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = -10V, I_D = -1A$	1.2	2.0		S
Static Drain-to-Source ON-State Resistance	$R_{DS(on)}$	$I_D = -1A, V_{GS} = -10V$		310	440	mΩ
ON-State Resistance	$R_{DS(on)}$	$I_D = -1A, V_{GS} = -4V$		480	650	mΩ
Input Capacitance	C_{iss}	$V_{DS} = -10V, f = 1MHz$		170		pF
Output Capacitance	C_{oss}	$V_{DS} = -10V, f = 1MHz$		120		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	"		20		ns
Turn-OFF Delay Time	$t_{d(off)}$	"		110		ns
Fall Time	t_f	"		75		ns
Diode Forward Voltage	V_{SD}	$I_S = -2A, V_{GS} = 0$	-1.0	-1.2		V

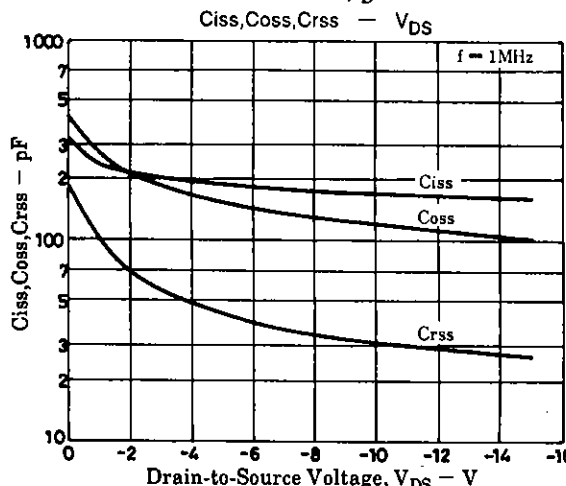
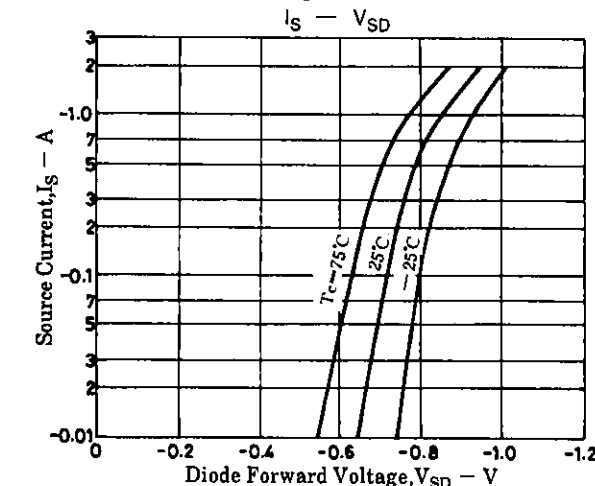
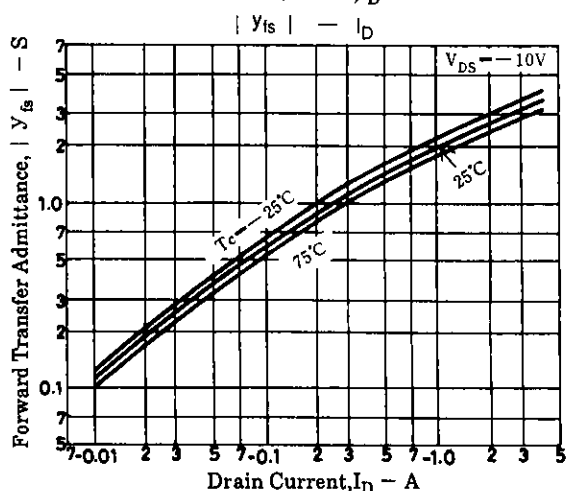
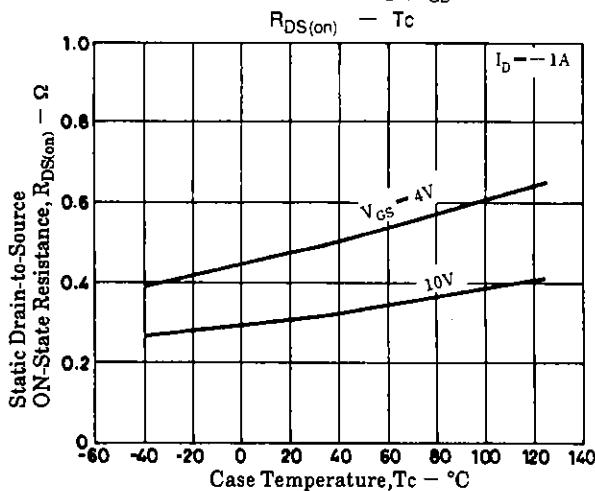
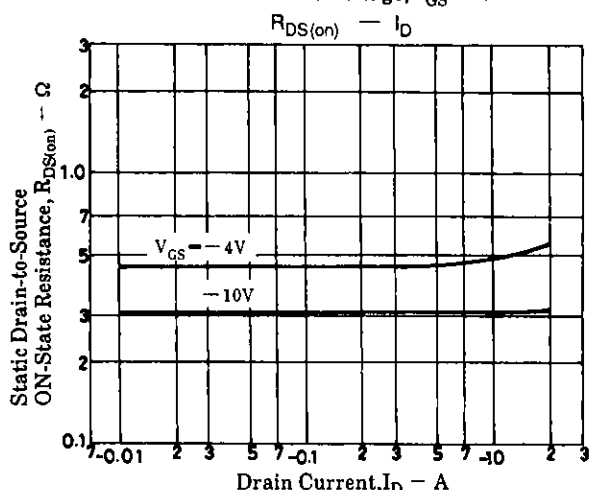
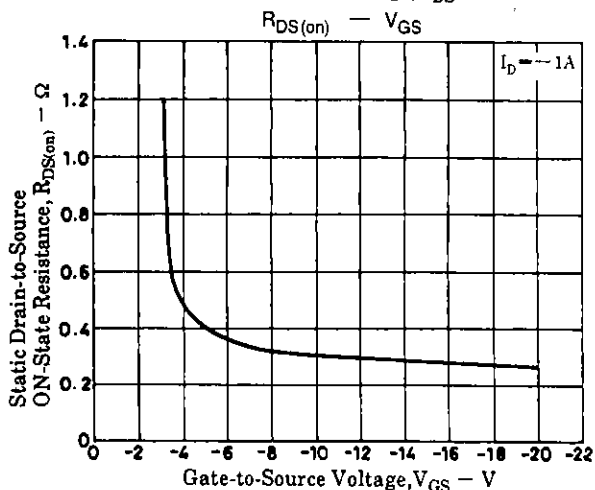
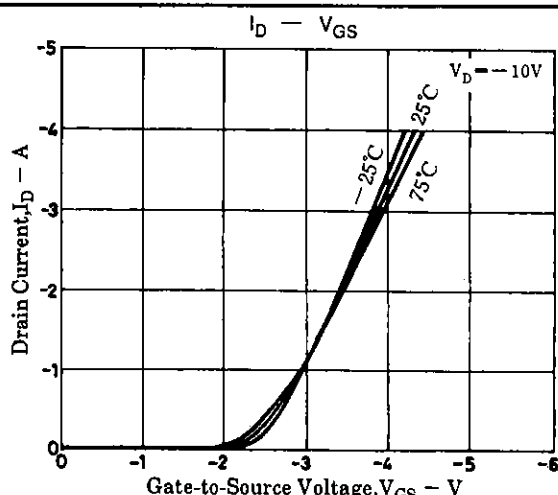
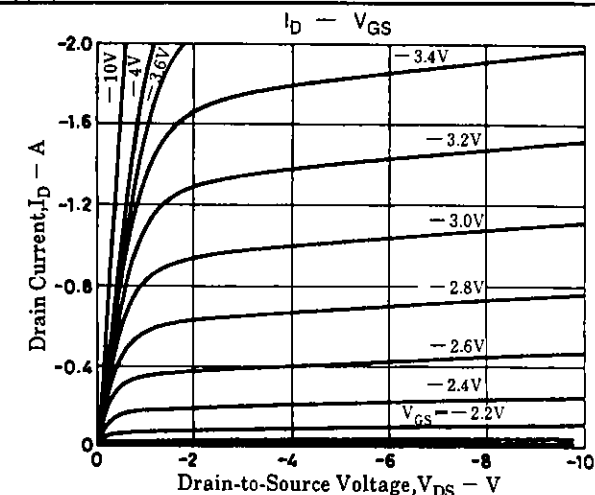
Marking : JJ

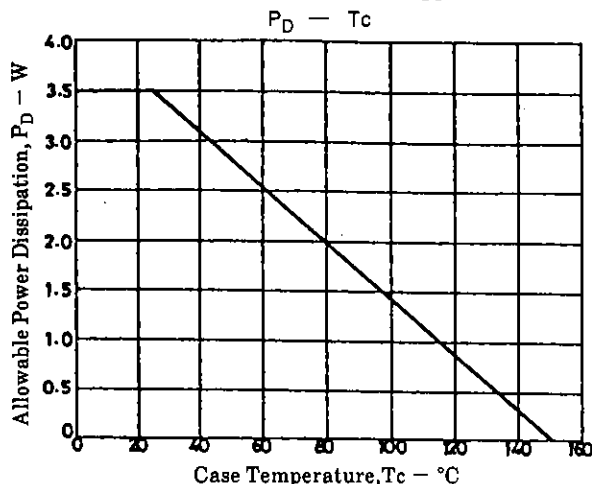
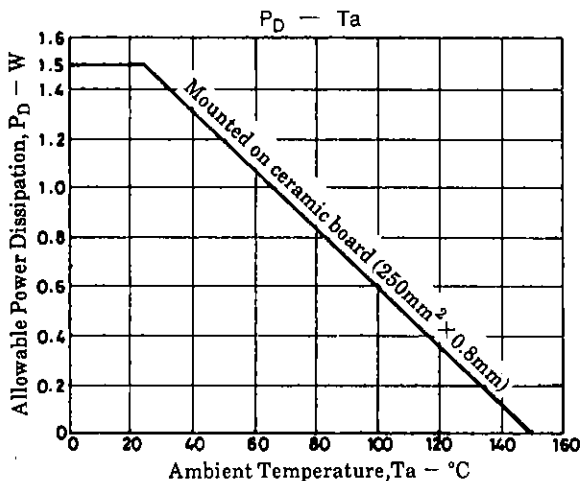
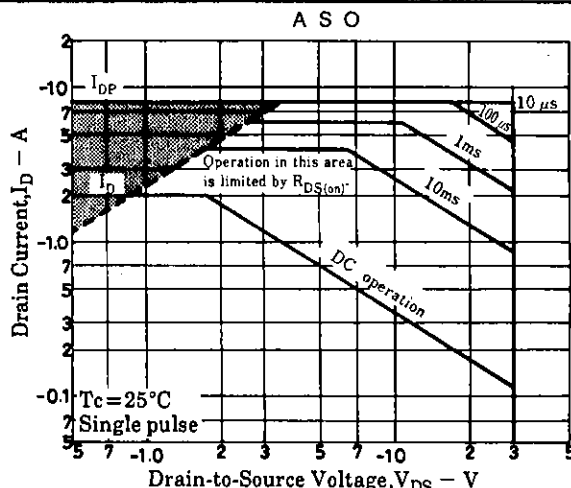
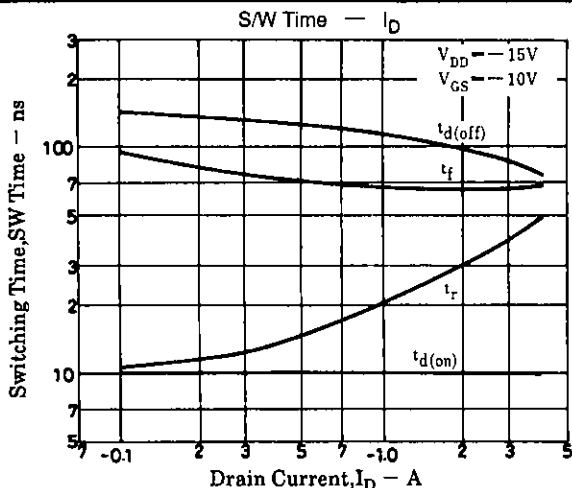
Switching Time Test Circuit



Package Dimensions 2062A







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