



### Features

- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.

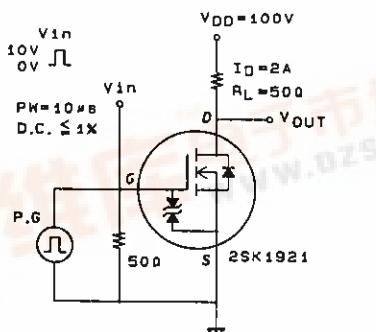
### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

		unit
Drain-to-Source Voltage	$V_{DSS}$	250 V
Gate-to-Source Voltage	$V_{GSS}$	$\pm 30$ V
Drain Current(DC)	$I_D$	4 A
Drain Current(Pulse)	$I_{DP}$	$PW \leq 10\mu\text{s}$ , duty cycle $\leq 1\%$ 16 A
Allowable Power Dissipation	$P_D$	1.75 W
Channel Temperature	$T_{ch}$	50 °C
Storage Temperature	$T_{stg}$	-55 to +150 °C

### Electrical Characteristics at $T_a = 25^\circ\text{C}$

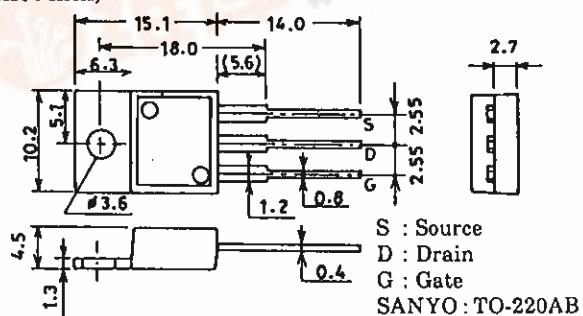
		min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	250			V
G-S Breakdown Voltage	$V_{(BR)GSS}$	$\pm 30$			V
Zero Gate Voltage	$I_{DSS}$			100	$\mu\text{A}$
Drain Current					
Gate-to-Source Leakage Current	$I_{GSS}$			$\pm 10$	$\mu\text{A}$
Cutoff Voltage	$V_{GS(\text{off})}$			2.5	V
Forward Transfer Admittance	$ Y_{fs} $			4	S
Static Drain-to-Source on State Resistance	$R_{DS(on)}$			0.5	$\Omega$
Input Capacitance	$C_{iss}$			600	pF
Output Capacitance	$C_{oss}$			100	pF
Reverse Transfer Capacitance	$C_{rss}$			40	pF
Turn-ON Delay Time	$t_{d(on)}$			12	ns
Rise Time	$t_r$			15	ns
Turn-OFF Delay Time	$t_{d(off)}$			65	ns
Fall Time	$t_f$			55	ns
Diode Forward Voltage	$V_{SD}$			1.0	V
				1.5	

### Switching Time Test Circuit

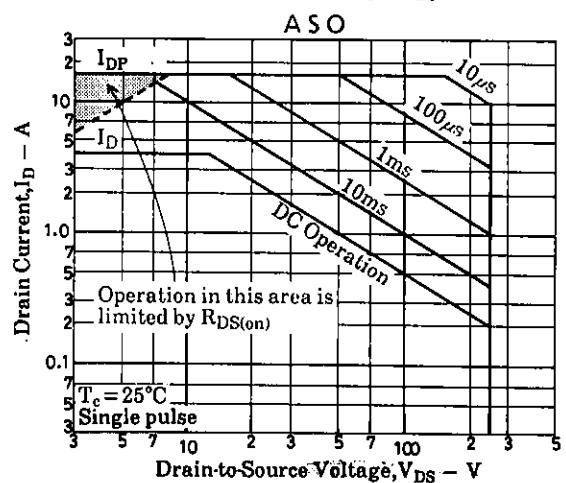
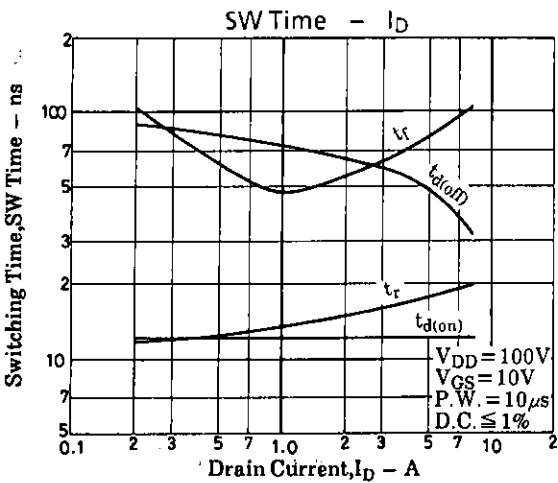
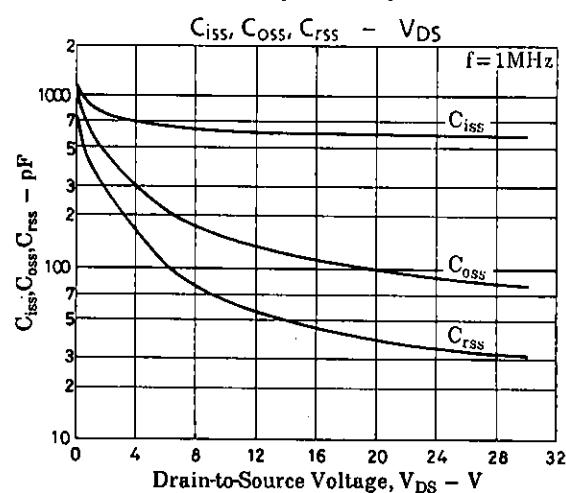
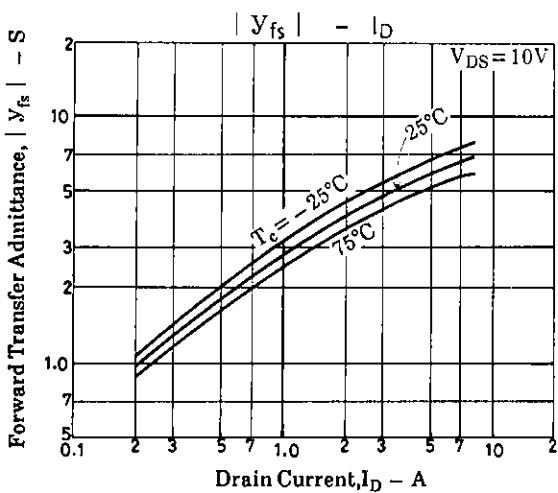
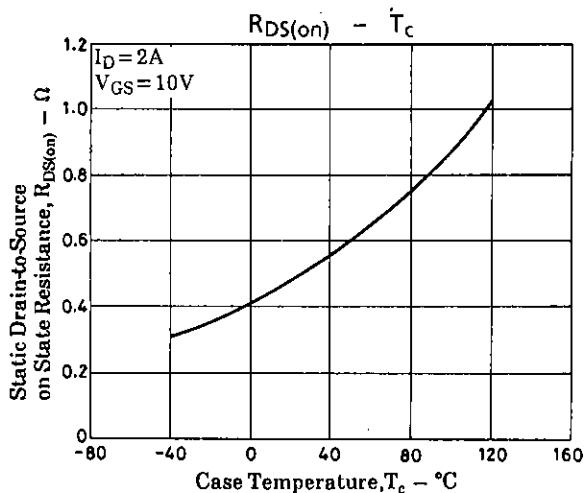
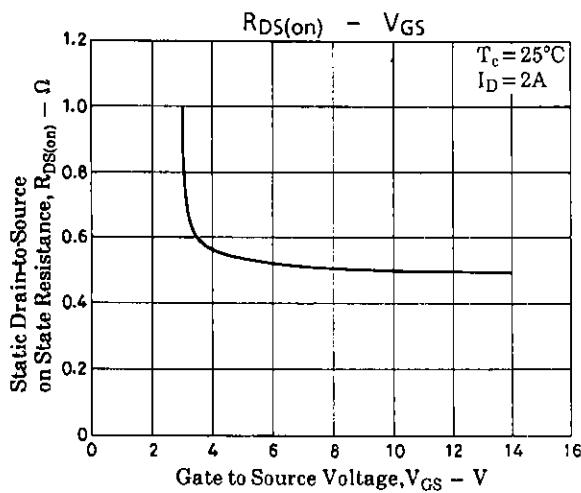
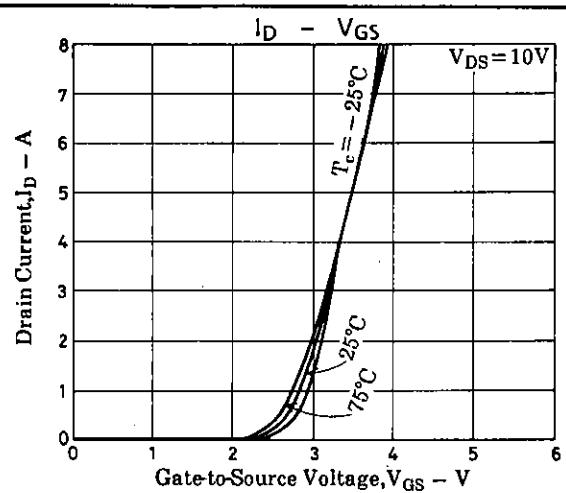
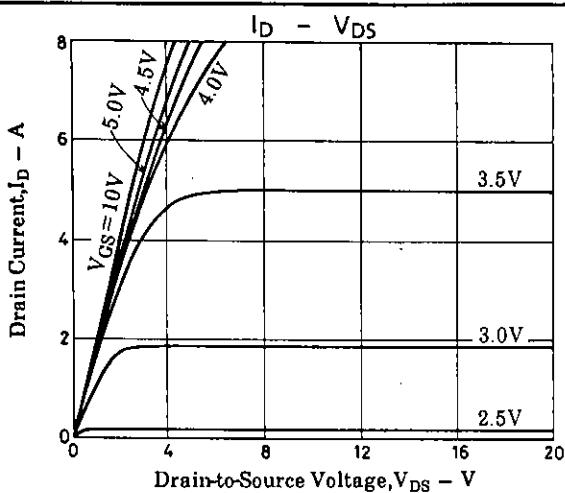


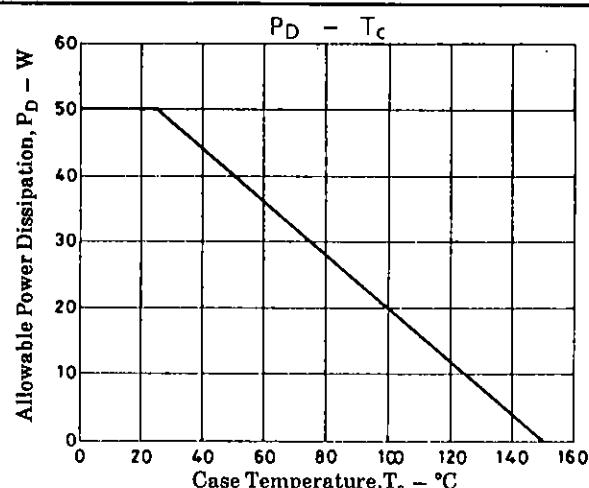
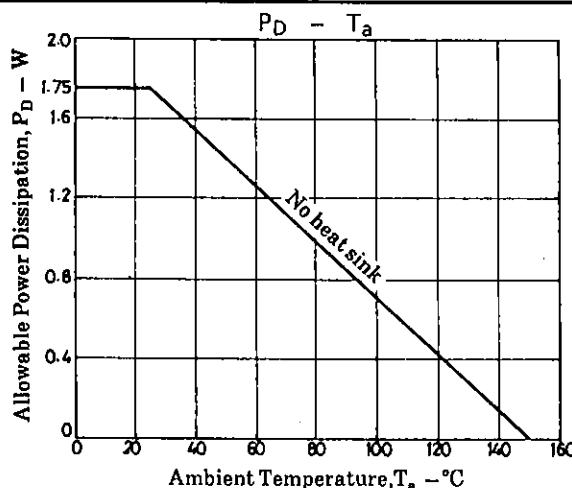
### Package Dimensions 2052B

(unit : mm)



# 2SK1921





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