

Features

- Low ON-state resistance.
- Ultrahigh-speed switching.
- Micaless package facilitating mounting.

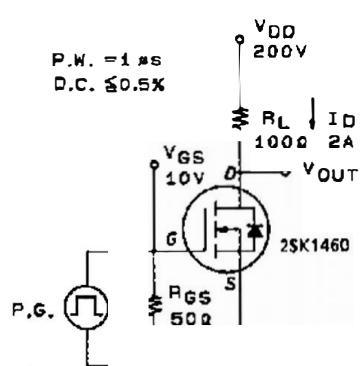
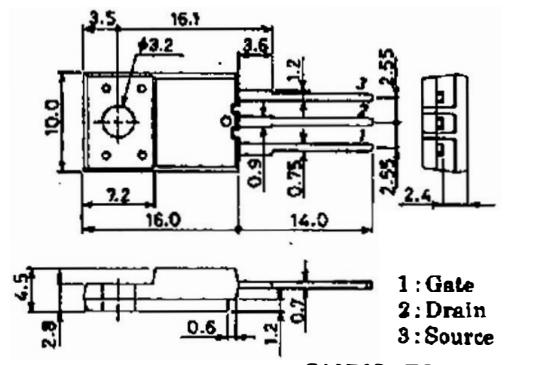
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

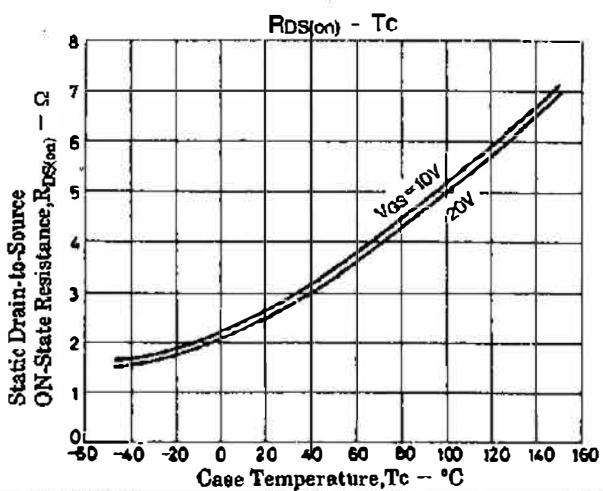
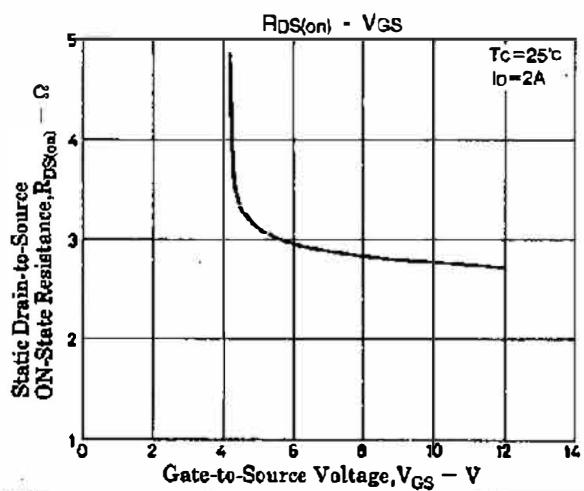
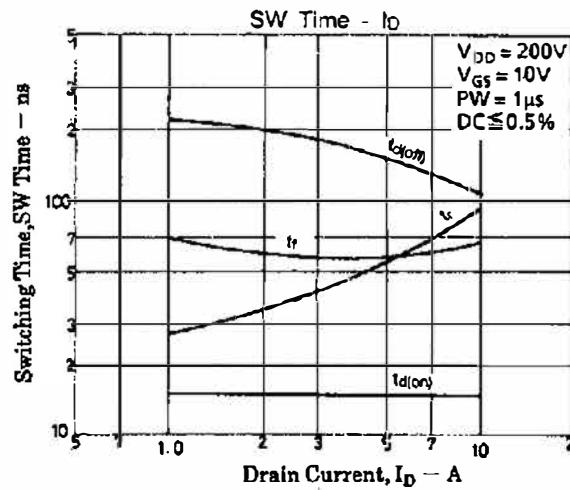
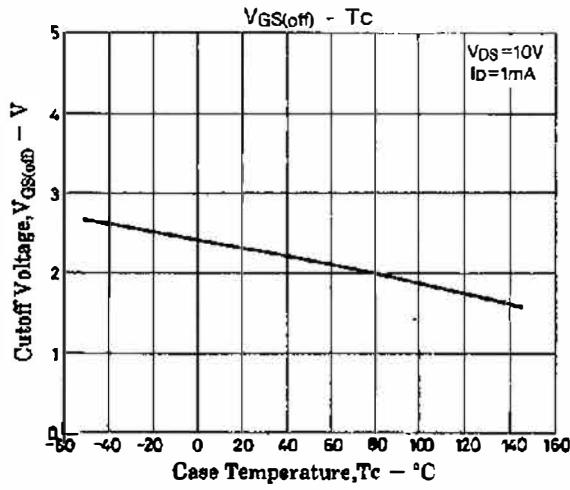
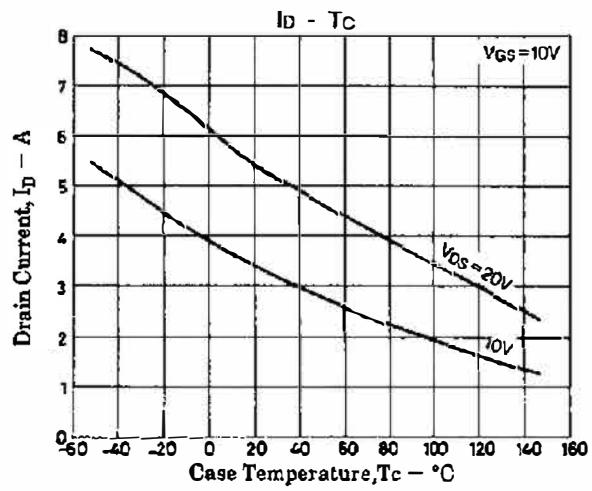
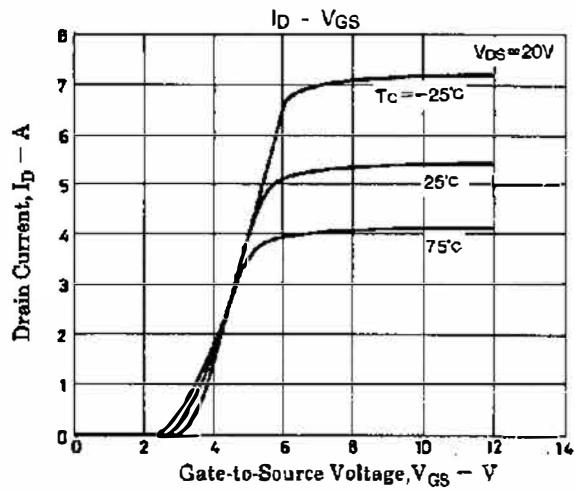
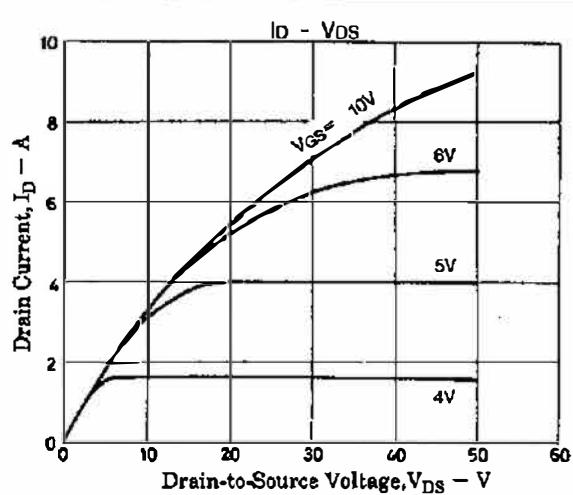
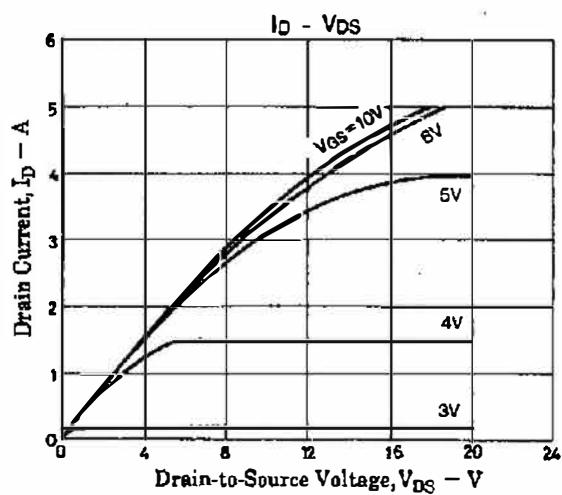
		unit
Drain-to-Source Voltage	V_{DSS}	900 V
Gate-to-Source Voltage	V_{GSS}	± 30 V
Drain Current(DC)	I_D	3.5 A
Drain Current(Pulse)	I_{DP}	$PW \leq 10\mu\text{s}, \text{duty cycle} \leq 1\%$ 7 A
Allowable Power Dissipation	P_D	2.0 W
		$T_c = 25^\circ\text{C}$ 40 W
Channel Temperature	T_{ch}	150 °C
Storage Temperature	T_{stg}	-55 to +150 °C

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

		min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	900			V
Zero-Gate Voltage Drain Current	I_{DSS}			1.0	mA
Gate-to-Source Leakage Current	I_{GSS}			± 100	nA
Cutoff Voltage	$V_{GS(\text{off})}$			2.0	V
Forward Transfer Admittance	$ Y_f $			3.0	S
Static Drain-to-Source	$R_{DS(\text{on})}$			2.8	Ω
ON-State Resistance				3.6	
Input Capacitance	C_{iss}	700			pF
Output Capacitance	C_{oss}	300			pF
Reverse Transfer Capacitance	C_{res}	170			pF
Turn-ON Delay Time	$t_{d(on)}$			15	ns
Rise Time	t_r			35	ns
Turn-OFF Delay Time	$t_{d(off)}$			200	ns
Fall Time	t_f			65	ns
Diode Forward Voltage	V_{SD}			1.8	V

(Note) Be careful in handling the 2SK1460 because it has no protection diode between gate and source.

Switching Time Test Circuit**Package Dimensions 2078B
(unit : mm)**



2SK1460

