

No.3468

2SK1465

SANYO

N-Channel MOS Silicon FET

Very High-Speed Switching Applications

Features

- Low ON-state resistance.
- Very high-speed switching.
- Converters.

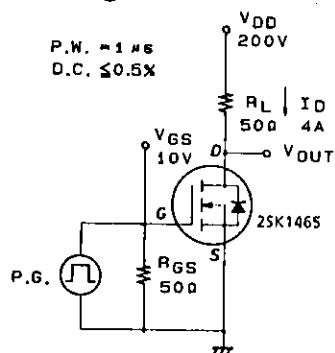
Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V _{DSS}	900	V
Gate to Source Voltage	V _{GSS}	±30	V
Drain Current(DC)	I _D	8	A
Drain Current(Pulse)	I _{DP}	PW ≤ 10μs, duty cycle ≤ 1%	A
Allowable Power Dissipation	P _D	T _c = 25°C	W
Channel Temperature	T _{ch}	3.5	W
Storage Temperature	T _{stg}	150	°C
		-55 to +150	°C

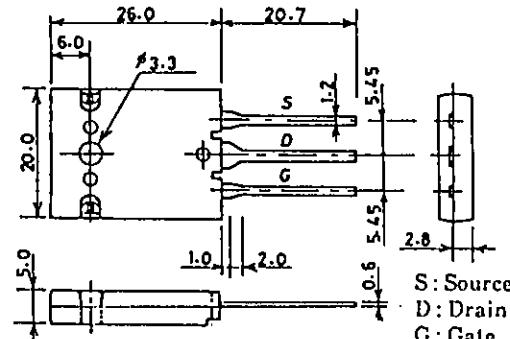
Electrical Characteristics at Ta = 25°C

		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(off)}			2.0	V
Forward Transfer Admittance	Y _{fs}			2.5	S
Static Drain to Source on State Resistance	R _{DS(on)}			1.2	Ω
Input Capacitance	C _{iss}			1600	pF
Output Capacitance	C _{oss}			500	pF
Reverse Transfer Capacitance	C _{rss}			350	pF
Turn-ON Delay Time	t _{d(on)}			20	ns
Rise Time	t _r			80	ns
Turn-OFF Delay Time	t _{d(off)}			350	ns
Fall Time	t _f			150	ns
Diode Forward Voltage	V _{SD}			1.8	V

(Note) Be careful in handling the 2SK1465 because it has no protection diode between gate and source.

Switching Time Test Circuit**Package Dimensions 2077**

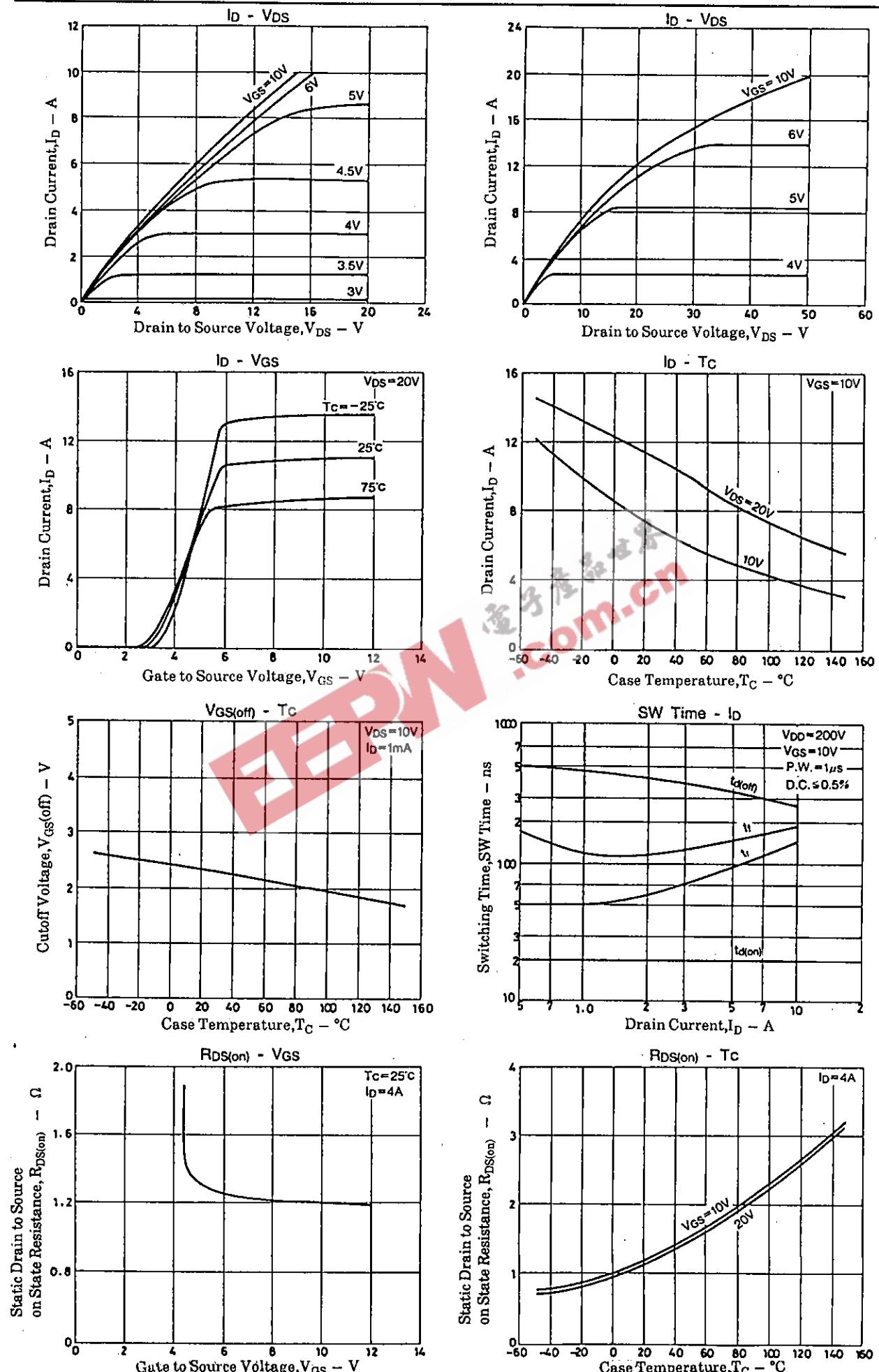
(unit : mm)



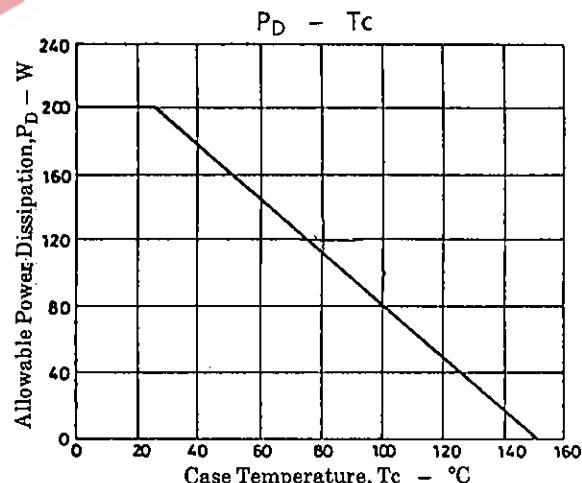
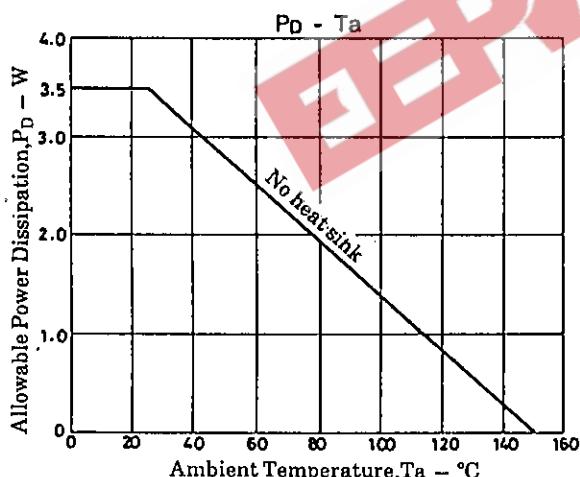
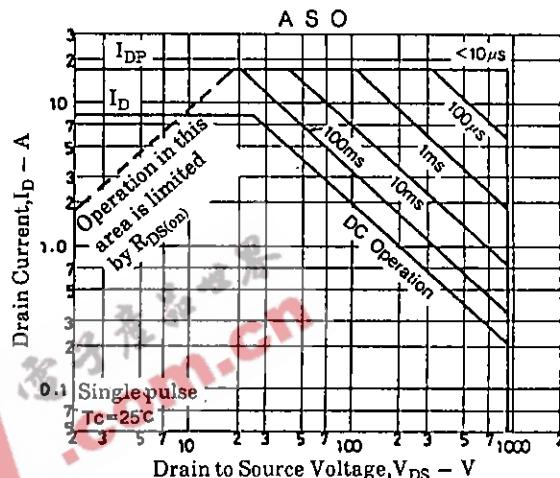
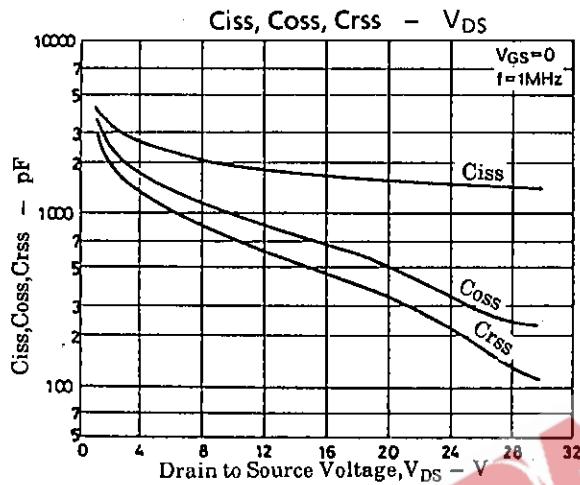
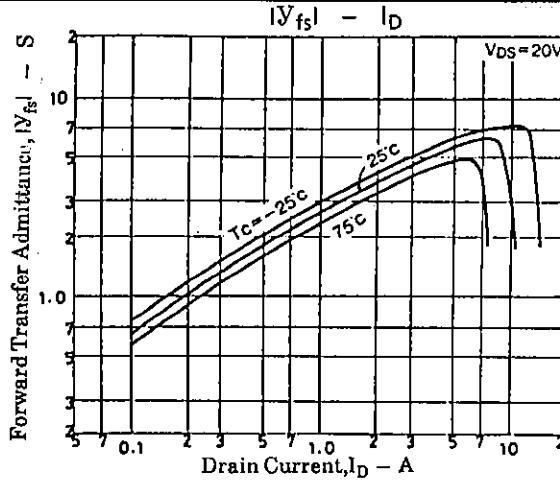
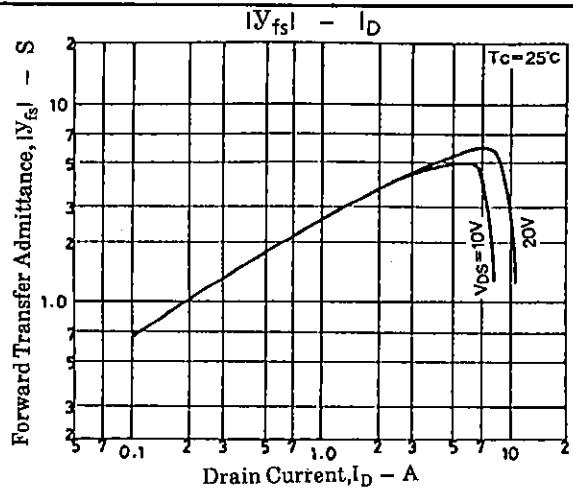
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