

**Features**

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

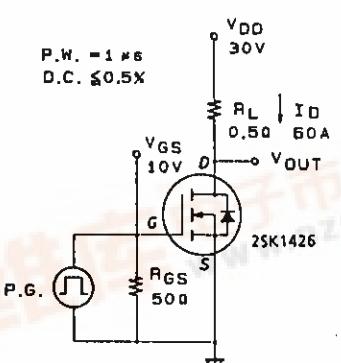
Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V _{DSS}	60	V
Gate to Source Voltage	V _{GSS}	±20	V
Drain Current(DC)	I _D	100	A
Drain Current(Pulse)	I _{DP}	PW ≤ 10 μs, duty cycle ≤ 1% 400	A
Allowable Power Dissipation	P _D	T _c = 25°C 200	W
			3.5 W
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

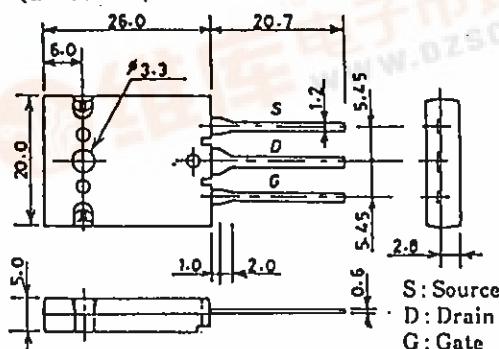
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = 1mA, V _{GS} = 0	60			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = 60V, V _{GS} = 0			100	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} = ±20V, V _{DS} = 0			±100	nA
Cutoff Voltage	V _{GS(off)}	V _{DS} = 10V, I _D = 1mA	1.5		2.5	V
Forward Transfer Admittance	Y _{fs}	V _{DS} = 10V, I _D = 60A	40	70		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D = 60A, V _{GS} = 10V		0.008	0.012	Ω
Input Capacitance	C _{iss}	V _{DS} = 20V, f = 1MHz	7200			pF
Output Capacitance	C _{oss}	V _{DS} = 20V, f = 1MHz	3300			pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = 20V, f = 1MHz	900			pF
Turn-ON Delay Time	t _{d(on)}			78		ns
Rise Time	t _r	I _D = 60A, V _{GS} = 10V	622			ns
Turn-OFF Delay Time	t _{d(off)}	V _{DD} = 30V, R _{GS} = 50Ω	650			ns
Fall Time	t _f		600			ns
Diode Forward Voltage	V _{SD}	I _S = 100A, V _{GS} = 0			1.8	V

(Note) Be careful in handling the 2SK1426 because it has no protection diode between gate and source.

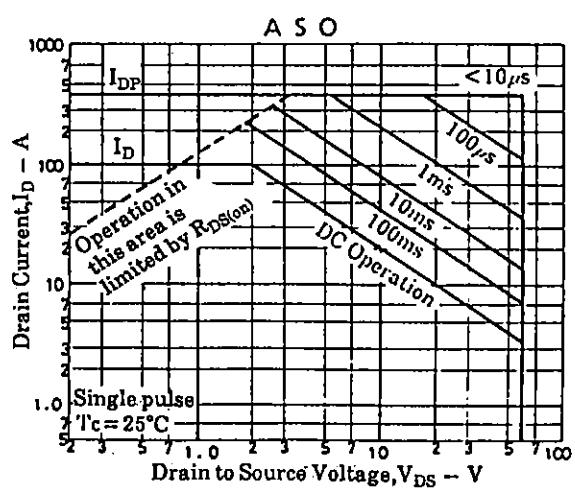
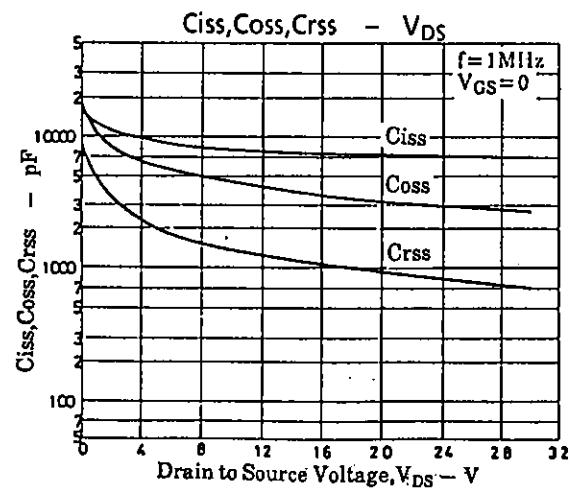
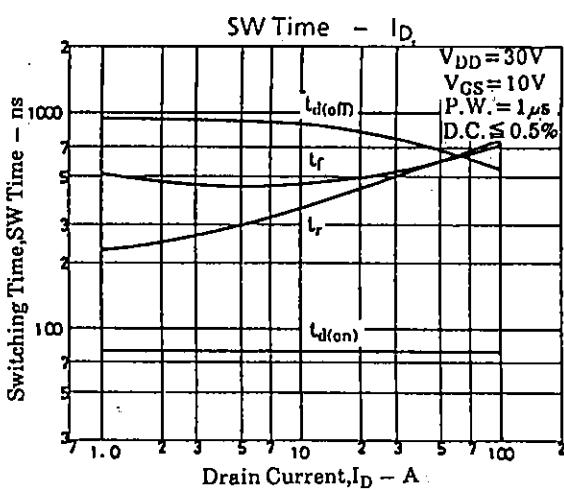
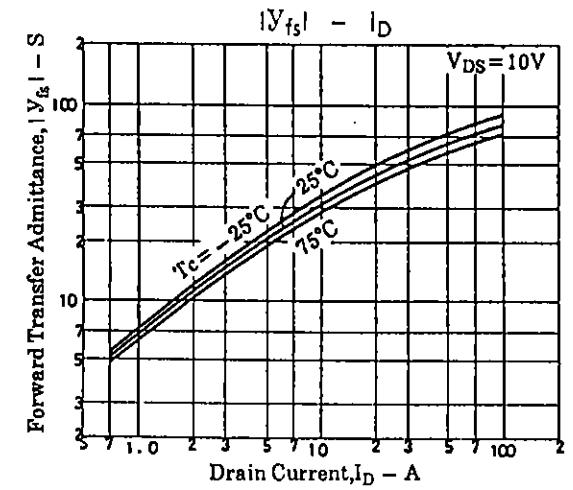
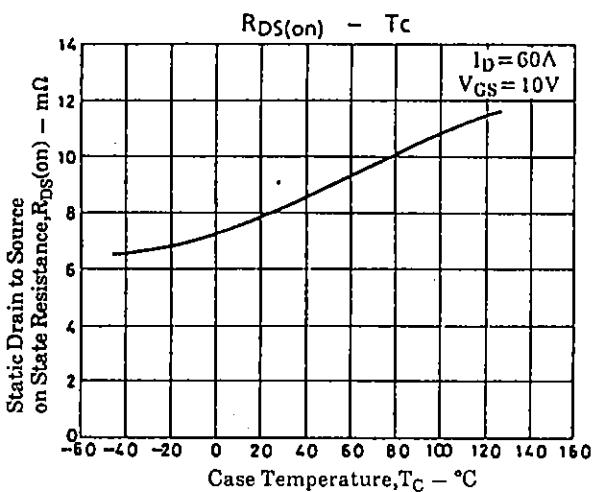
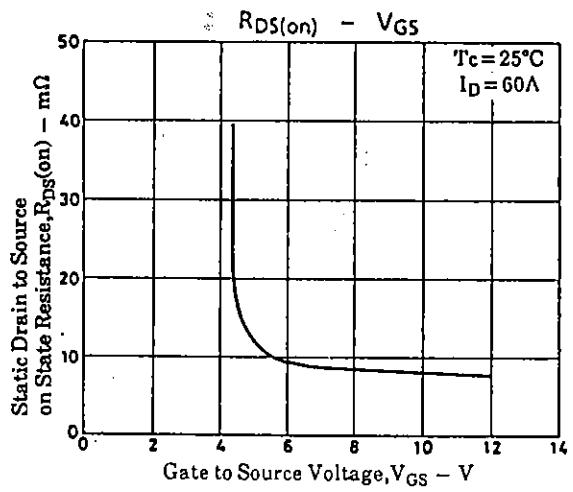
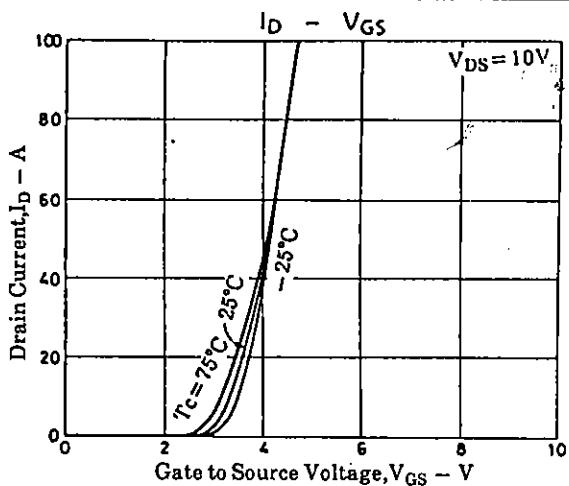
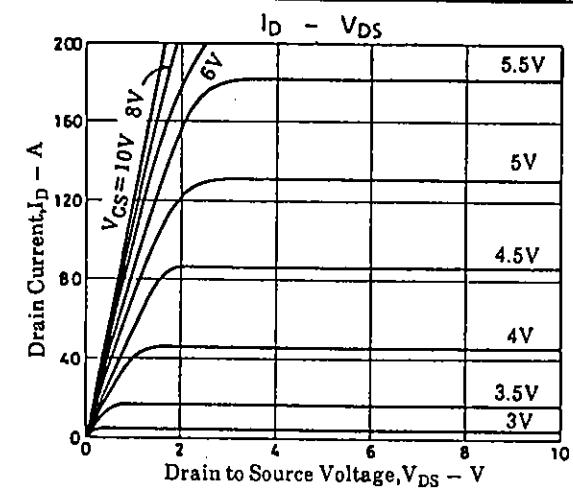
Switching Time Test Circuit**Package Dimensions 2077**

(unit : mm)

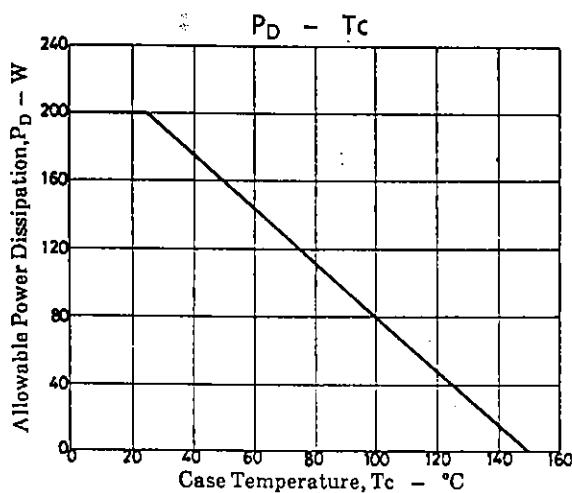
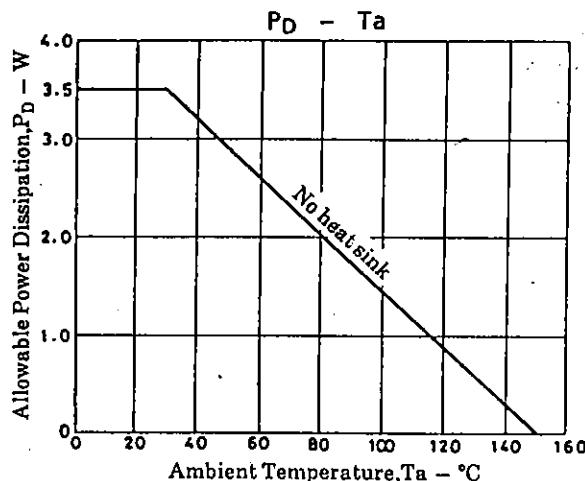
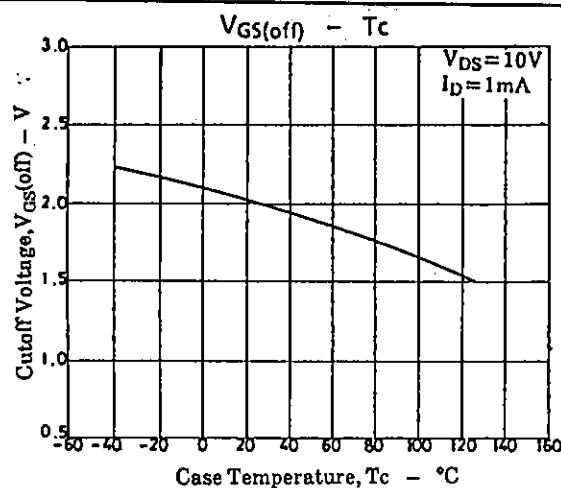


SANYO: TO-3PBL

2SK1426



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