

<b>SANYO</b>	No.3812	<b>2SJ227</b>
		P-Channel MOS Silicon FET Very High-Speed Switching Applications

**Features**

- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.
- Its height onboard is 9.5mm.
- Meets radial taping.

**Absolute Maximum Ratings at Ta = 25°C**

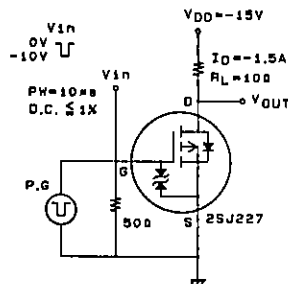
			unit
Drain to Source Voltage	V <sub>DSS</sub>	-30	V
Gate to Source Voltage	V <sub>GSS</sub>	±15	V
Drain Current(DC)	I <sub>D</sub>	-3	A
Drain Current(Pulse)	I <sub>DP</sub>	-12	A
Allowable Power Dissipation	P <sub>D</sub>	1.5	W
Channel Temperature	T <sub>ch</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to +150	°C

PW ≤ 10μs, duty cycle ≤ 1%

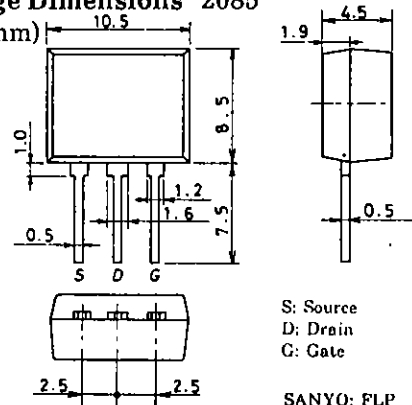
**Electrical Characteristics at Ta = 25°C**

			min	typ	max	
D-S Breakdown Voltage	V <sub>(BR)DSS</sub> I <sub>D</sub> = -1mA, V <sub>GS</sub> = 0		-30			V
G-S Breakdown Voltage	V <sub>(BR)GSS</sub> I <sub>G</sub> = ±100μA, V <sub>DS</sub> = 0		±15			V
Zero Gate Voltage Drain Current	I <sub>DSS</sub> V <sub>DS</sub> = -30V, V <sub>GS</sub> = 0				-100	μA
Gate to Source Leakage Current	I <sub>GSS</sub> V <sub>GS</sub> = ±12V, V <sub>DS</sub> = 0				±10	μA
Cutoff Voltage	V <sub>GS(off)</sub> V <sub>DS</sub> = -10V, I <sub>D</sub> = -1mA		-1.0		-2.0	V
Forward Transfer Admittance	Y <sub>fs</sub>   V <sub>DS</sub> = -10V, I <sub>D</sub> = -1.5A		2	3.5		S
Static Drain to Source on State Resistance	R <sub>DS(on)</sub> I <sub>D</sub> = -1.5A, V <sub>GS</sub> = -10V			95	130	mΩ
	R <sub>DS(on)</sub> I <sub>D</sub> = -1.5A, V <sub>GS</sub> = -4V			130	170	mΩ
Input Capacitance	C <sub>iss</sub> V <sub>DS</sub> = -10V, f = 1MHz			1000		pF
Output Capacitance	C <sub>oss</sub> V <sub>DS</sub> = -10V, f = 1MHz			600		pF
Reverse Transfer Capacitance	C <sub>rss</sub> V <sub>DS</sub> = -10V, f = 1MHz			220		pF
Turn-ON Delay Time	t <sub>d(on)</sub> See specified Test Circuit.			15		ns
Rise Time	t <sub>r</sub> "			45		ns
Turn-OFF Delay Time	t <sub>d(off)</sub> "			160		ns
Fall Time	t <sub>f</sub> "			145		ns
Diode Forward Voltage	V <sub>SD</sub> I <sub>S</sub> = -3A, V <sub>GS</sub> = 0		-1.0	-1.5		V

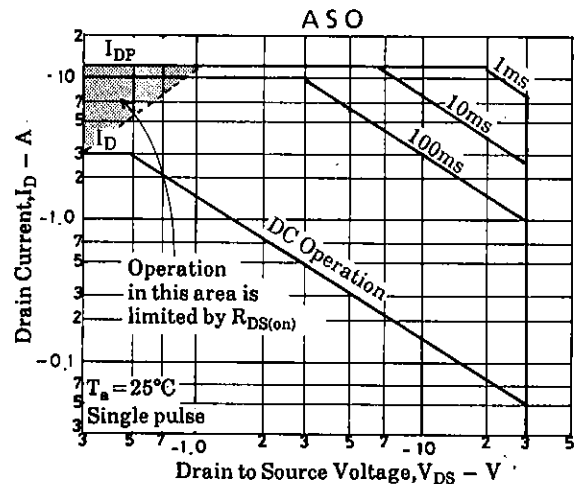
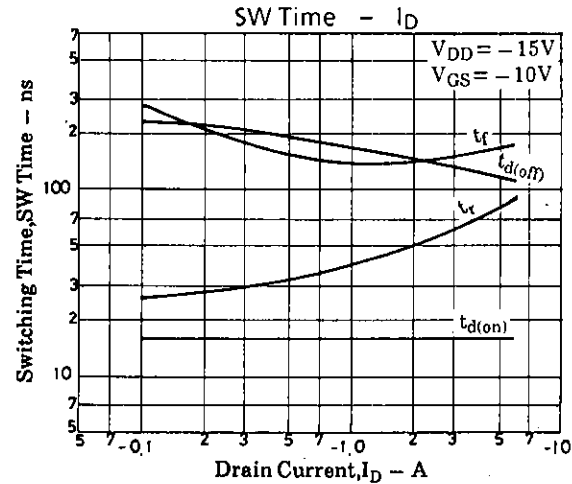
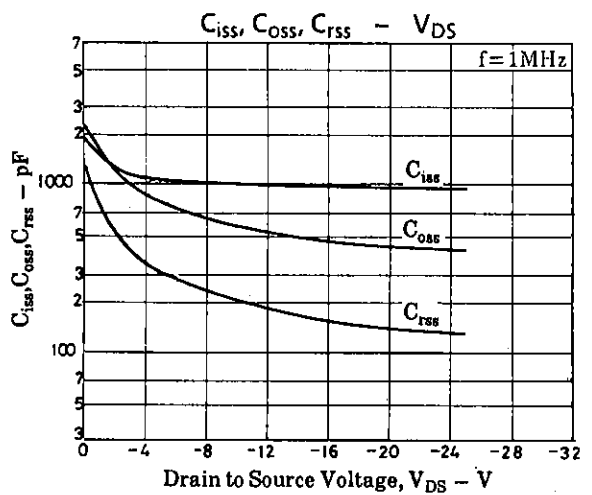
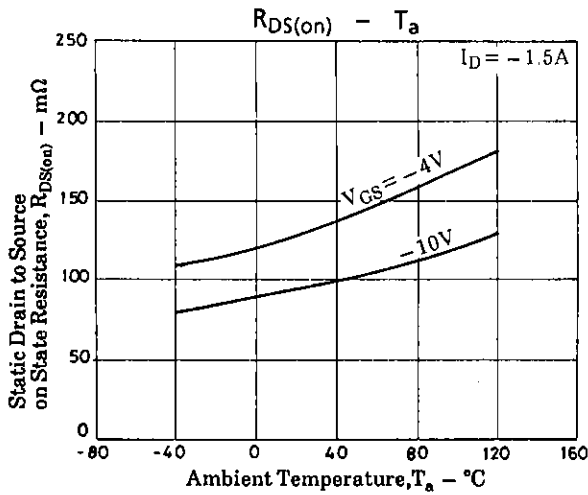
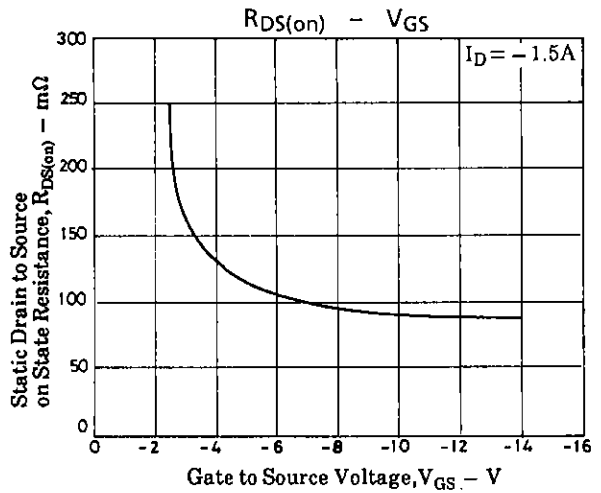
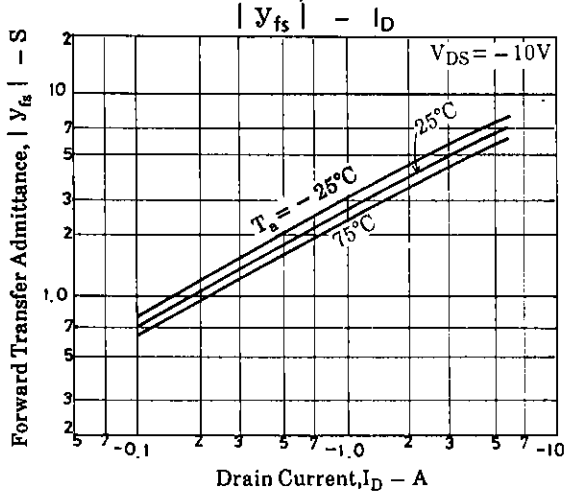
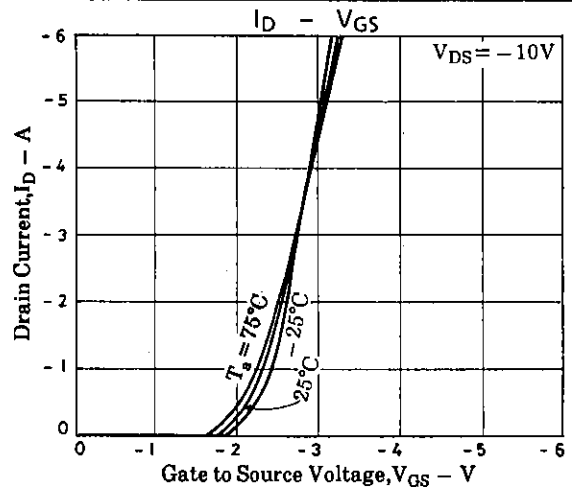
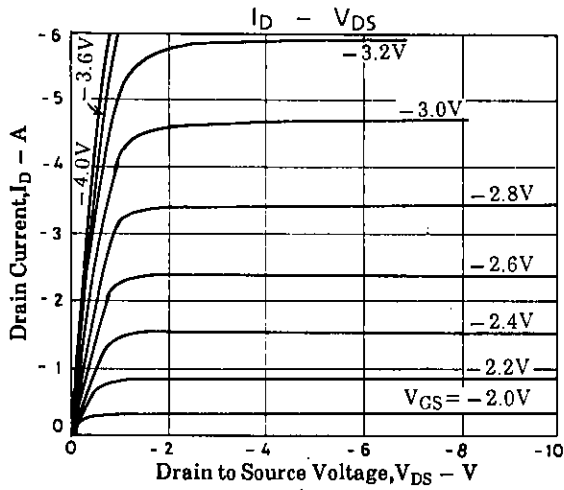
**Switching Time Test Circuit**

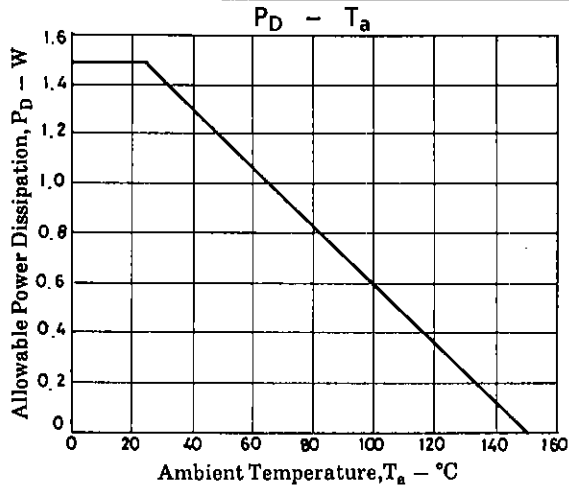


**Package Dimensions 2085**  
(unit: mm)



S: Source  
D: Drain  
G: Gate  
  
SANYO: FLP





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