**Features**

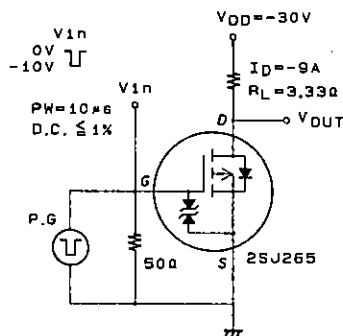
- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.
- Micaless package facilitating mounting.

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

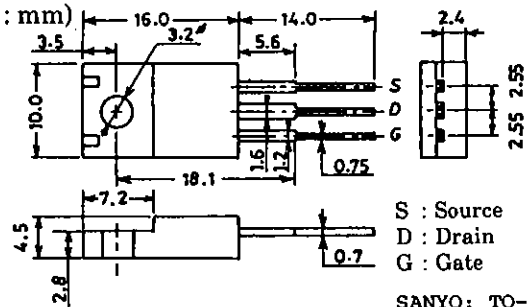
			unit
Drain to Source Voltage	V <sub>DSS</sub>	-60	V
Gate to Source Voltage	V <sub>GSS</sub>	±15	V
Drain Current(DC)	I <sub>D</sub>	-15	A
Drain Current(Pulse)	I <sub>DP</sub>	-60	A
Allowable Power Dissipation	P <sub>D</sub>	2.0	W
		T <sub>c</sub> = 25°C	
		30	W
Channel Temperature	T <sub>ch</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to +150	°C

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

			min	typ	max	unit
D-S Breakdown Voltage	V <sub>(BR)DSS</sub>	I <sub>D</sub> = -1mA, V <sub>GS</sub> = 0	-60			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> = -60V, 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> = -9A	8	13.5		S
Static Drain to Source on State Resistance	R <sub>DSS(on)</sub>	I <sub>D</sub> = -9A, V <sub>GS</sub> = -10V		60	80	mΩ
	R <sub>DSS(on)</sub>	I <sub>D</sub> = -9A, V <sub>GS</sub> = -4V		80	110	mΩ
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> = -20V, f = 1MHz		1900		pF
Output Capacitance	C <sub>oss</sub>	V <sub>DS</sub> = -20V, f = 1MHz		600		pF
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>DS</sub> = -20V, f = 1MHz		150		pF
Turn-ON Delay Time	t <sub>d(on)</sub>	See specified Test Circuit.		18		ns
Rise Time	t <sub>r</sub>	∕		35		ns
Turn-OFF Delay Time	t <sub>d(off)</sub>	∕		350		ns
Fall Time	t <sub>f</sub>	∕		250		ns
Diode Forward Voltage	V <sub>SD</sub>	I <sub>S</sub> = -15A, V <sub>GS</sub> = 0	-1.0	-1.5		V

**Switching Time Test Circuit****Package Dimensions 2063**

(unit: mm)

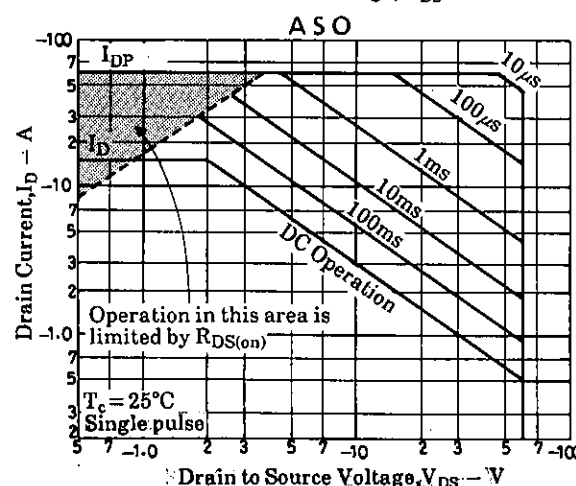
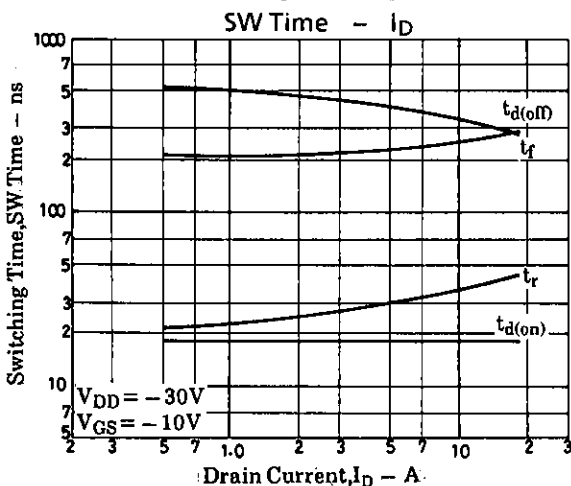
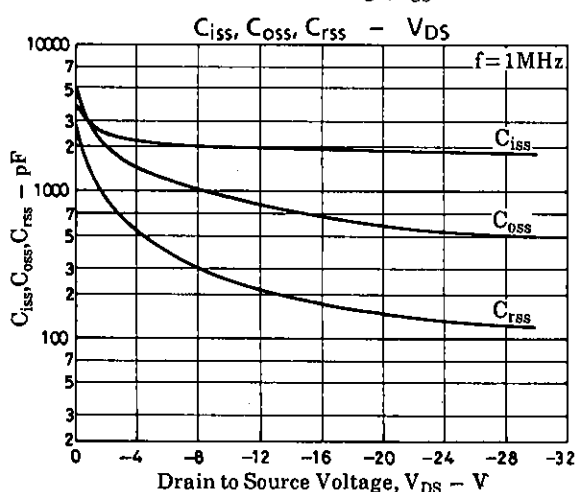
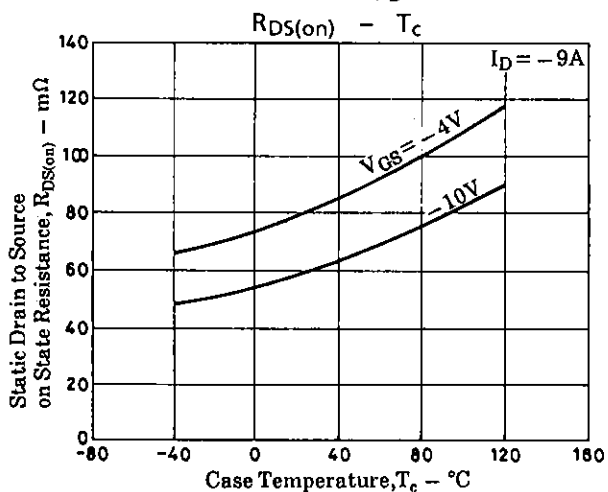
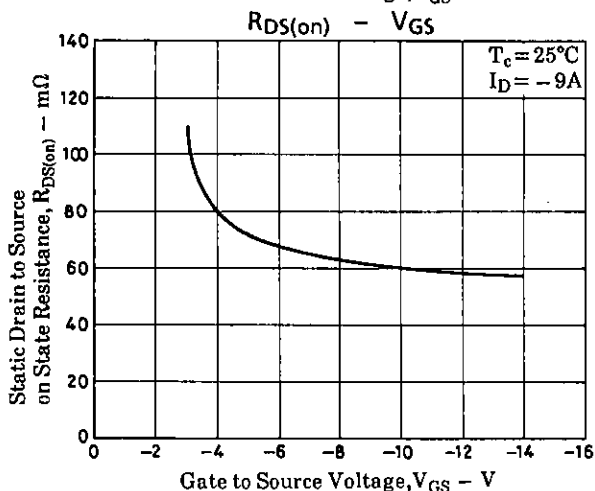
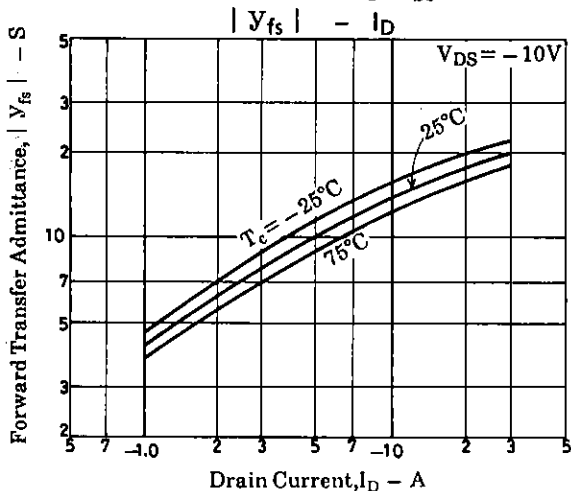
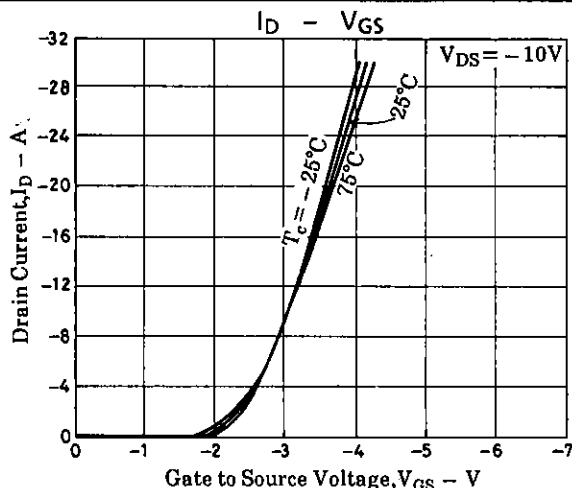
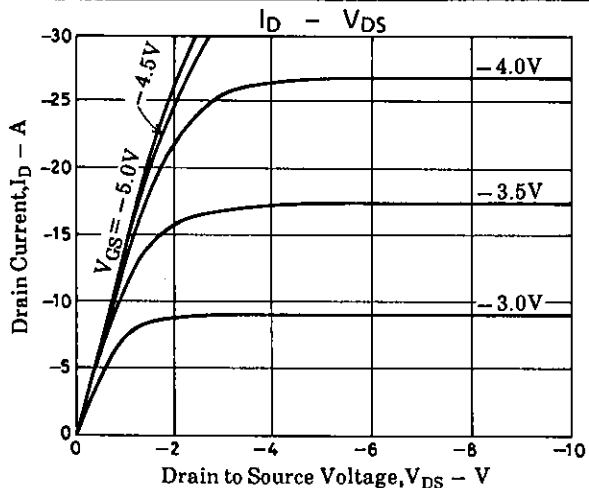


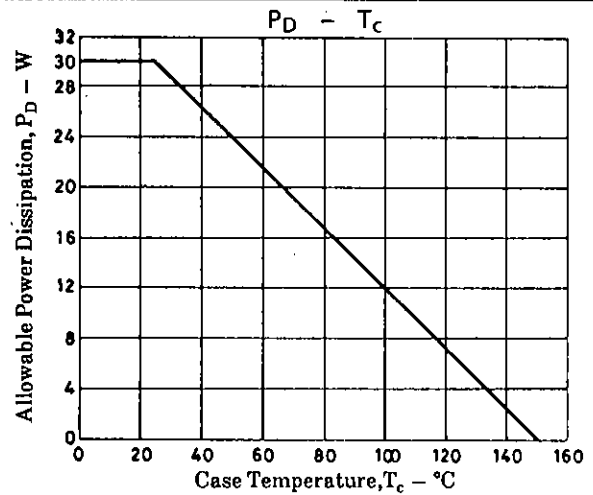
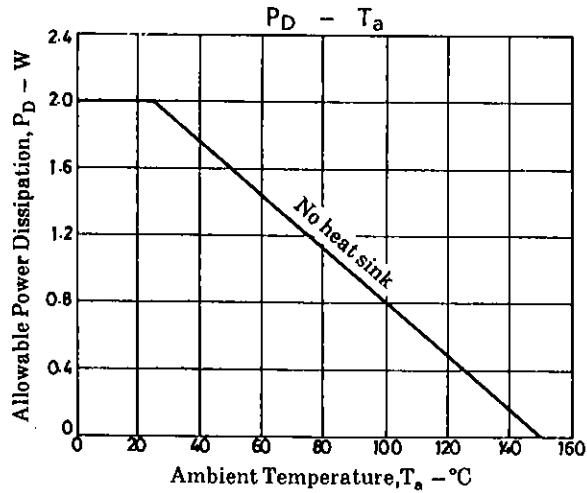
S : Source  
D : Drain  
G : Gate

SANYO: TO-220ML

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