

SANYO	No.4646	2SK1887
		N-Channel MOS Silicon FET Very High-Speed Switching Applications

Features

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

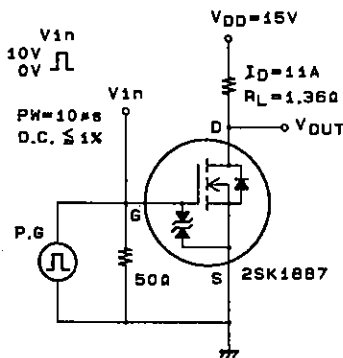
Absolute Maximum Ratings at Ta = 25°C

			unit
Drain-to-Source Voltage	V _{DSS}	30	V
Gate-to-Source Voltage	V _{GSS}	±20	V
Drain Current(DC)	I _D	20	A
Drain Current(Pulse)	I _{DP}	80	A
Allowable Power Dissipation	P _D	2.0	W
		Tc = 25°C	25
Channel Temperature	Tch	150	°C
Storage Temperature	Tstg	-55 to +150	°C

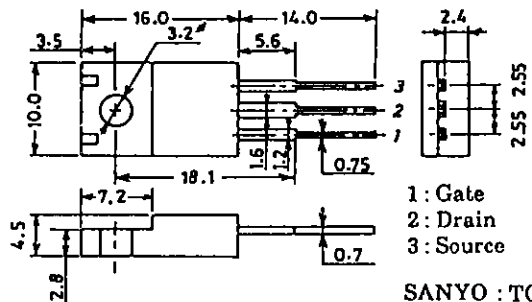
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = 1mA, V _{GS} = 0	30			V
G-S Breakdown Voltage	V _{(BR)GSS}	I _G = ±100μA, V _{DS} = 0	±20			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} = 30V, V _{GS} = 0			100	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} = ±16V, V _{DS} = 0			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} = 10V, I _D = 1mA	1.0		2.0	V
Forward Transfer Admittance	Y _{fs}	V _{DS} = 10V, I _D = 11A	9	14.5		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D = 11A, V _{GS} = 10V		30	40	mΩ
ON-State Resistance	R _{DS(on)}	I _D = 11A, V _{GS} = 4V		40	55	mΩ
Input Capacitance	C _{iss}	V _{DS} = 10V, f = 1MHz		1300		pF
Output Capacitance	C _{oss}	V _{DS} = 10V, f = 1MHz		720		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = 10V, f = 1MHz		240		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		14		ns
Rise Time	t _r	"		50		ns
Turn-OFF Delay Time	t _{d(off)}	"		290		ns
Fall Time	t _f	"		150		ns
Diode Forward Voltage	V _{SD}	I _S = 20A, V _{GS} = 0	1.0	1.5		V

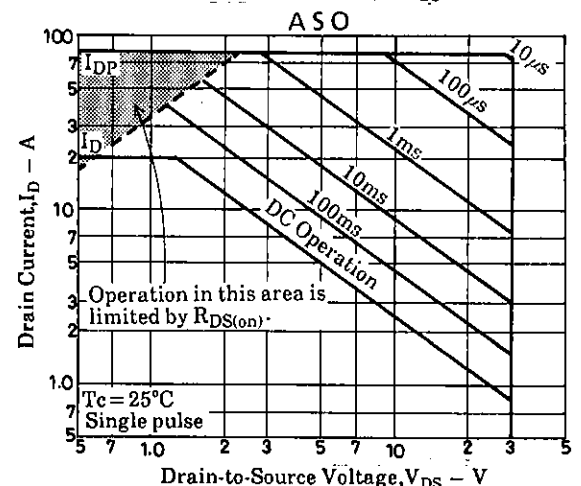
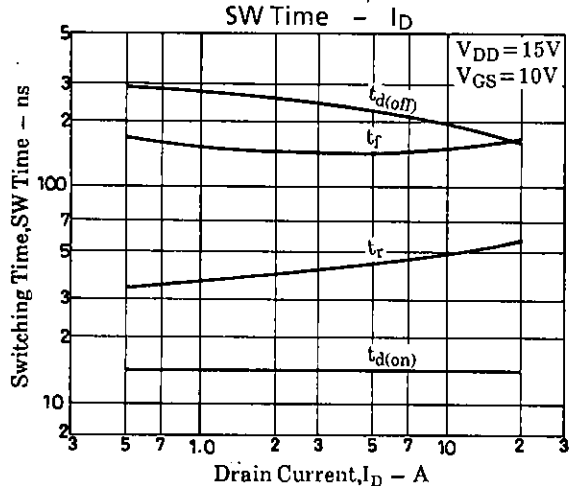
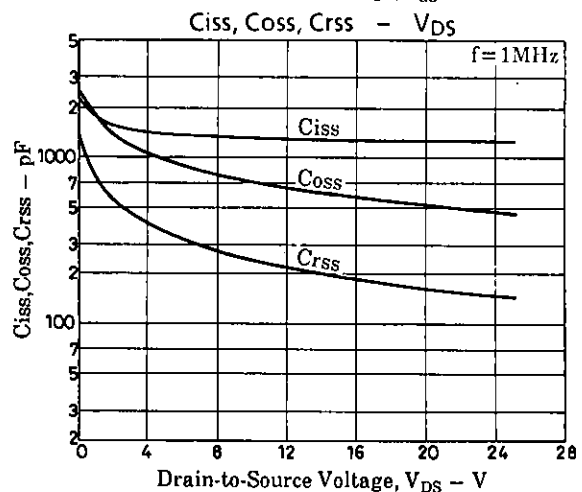
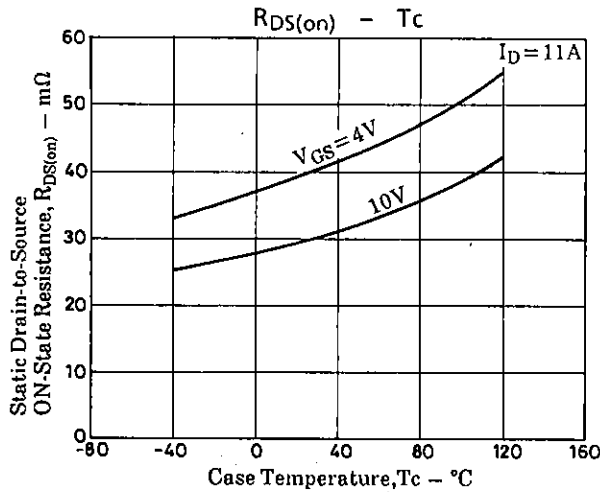
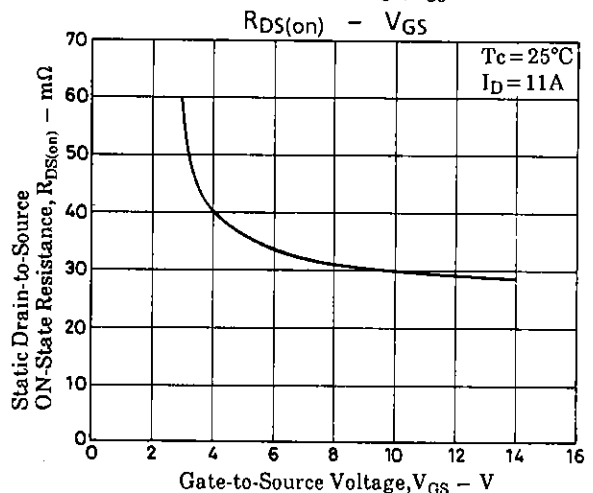
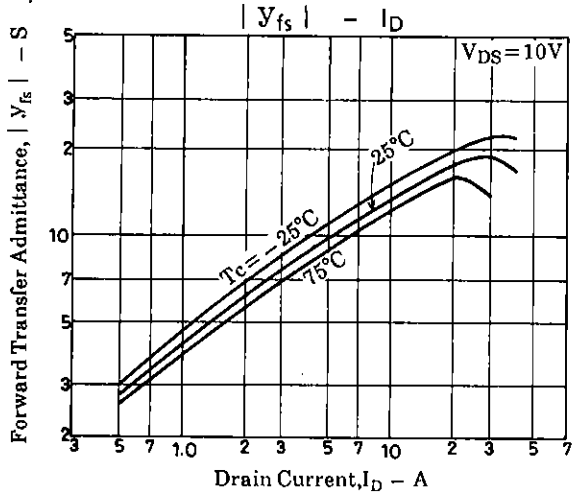
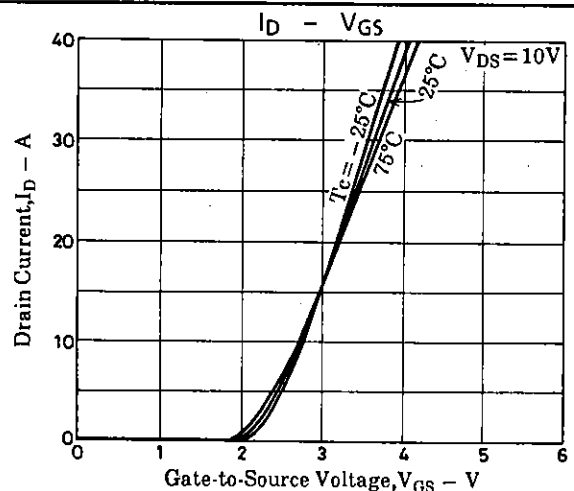
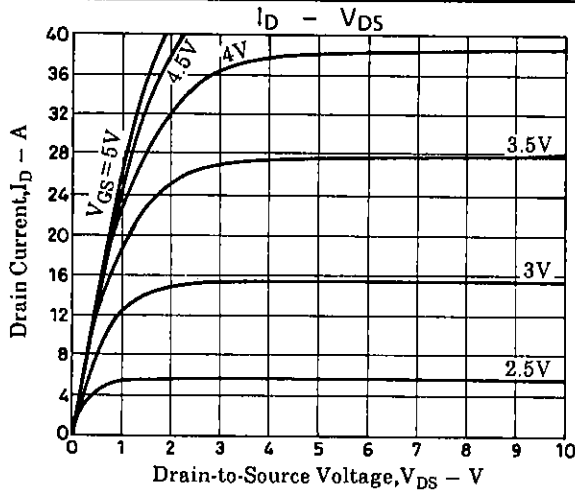
Switching Time Test Circuit

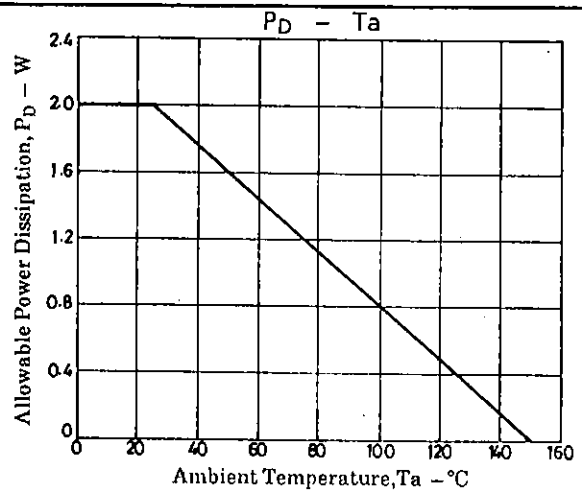
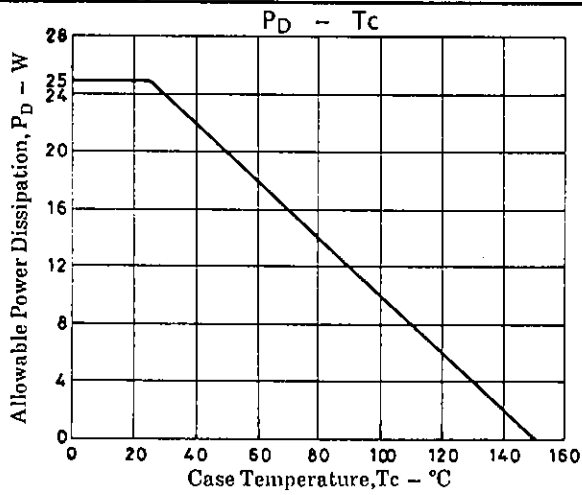


Package Dimensions 2063A (unit : mm)



SANYO : TO - 220ML





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