



Features

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

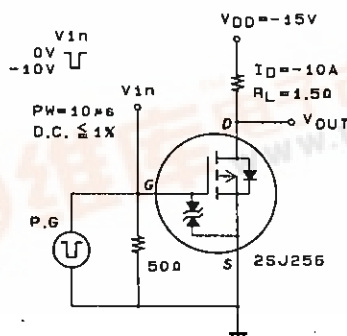
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Condition	Value	unit
Drain to Source Voltage	V _{DS}		-30	V
Gate to Source Voltage	V _{GS}		±15	V
Drain Current(DC)	I _D		-18	A
Drain Current(Pulse)	I _{DP}	PW ≤ 10 μs, duty cycle ≤ 1%	-72	A
Allowable Power Dissipation	P _D	T _c = 25°C	2.0	W
Channel Temperature	T _{ch}		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

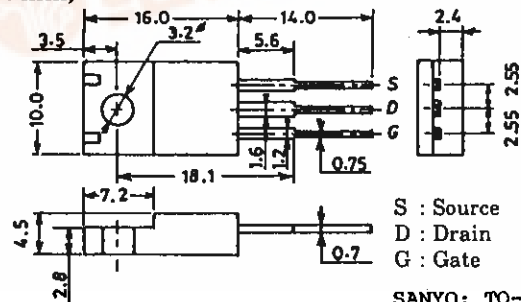
Parameter	Symbol	Condition	min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D = -1mA, V _{GS} = 0	-30			V
G-S Breakdown Voltage	V _{(BR)GSS}	I _G = ±100 μA, V _{DS} = 0	±15			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = -30V, V _{GS} = 0			-100	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} = ±12V, 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 = -10A	8.5	14		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D = -10A, V _{GS} = -10V		40	55	mΩ
	R _{DS(on)}	I _D = -10A, V _{GS} = -4V		55	75	mΩ
Input Capacitance	C _{iss}	V _{DS} = -10V, f = 1MHz		2000		pF
Output Capacitance	C _{oss}	V _{DS} = -10V, f = 1MHz		1200		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} = -10V, f = 1MHz		440		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		18		ns
Rise Time	t _r	"		50		ns
Turn-OFF Delay Time	t _{d(off)}	"		400		ns
Fall Time	t _f	"		400		ns
Diode Forward Voltage	V _{SD}	I _S = -18A, V _{GS} = 0	-1.0	-1.5		V

Switching Time Test Circuit



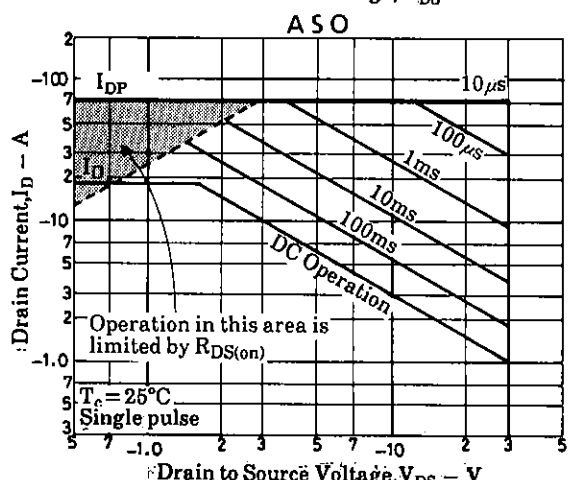
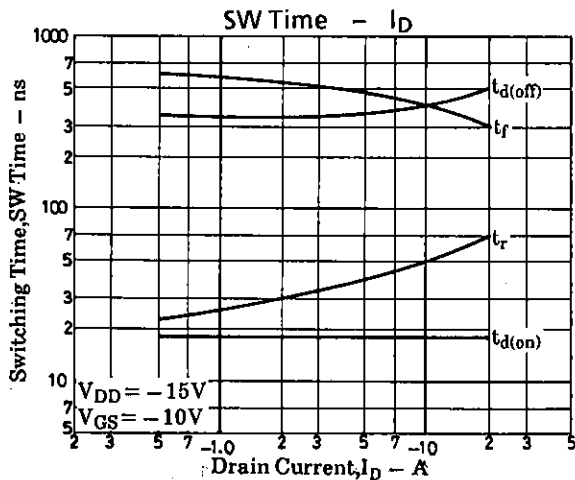
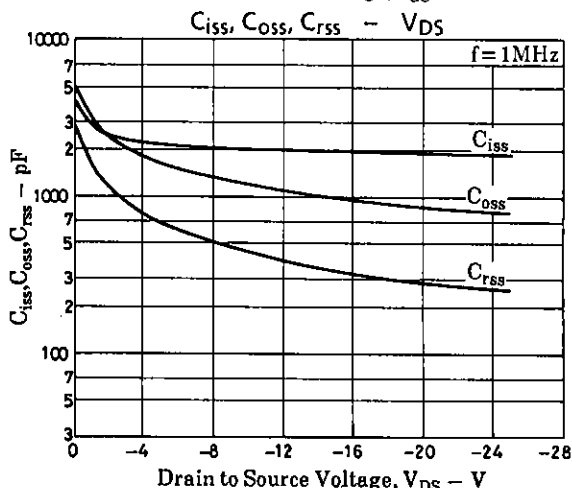
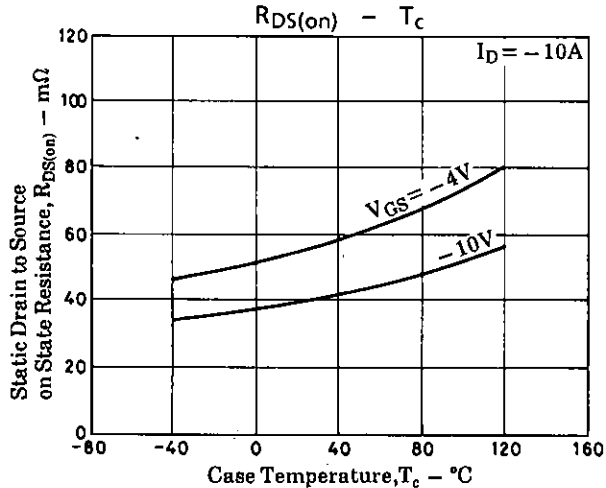
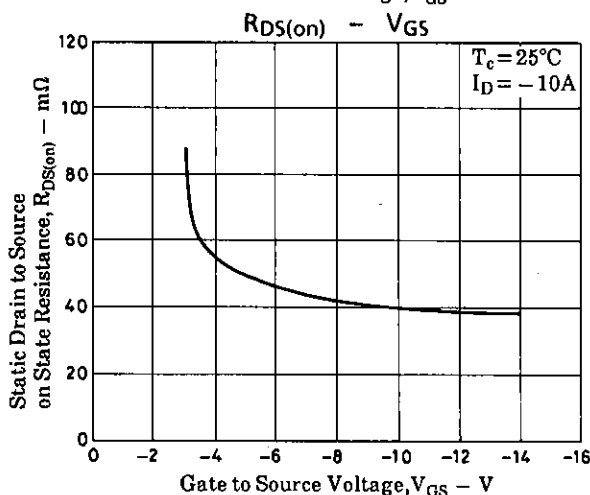
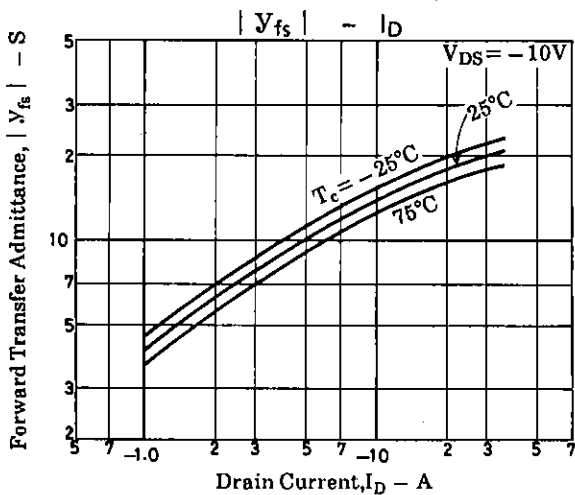
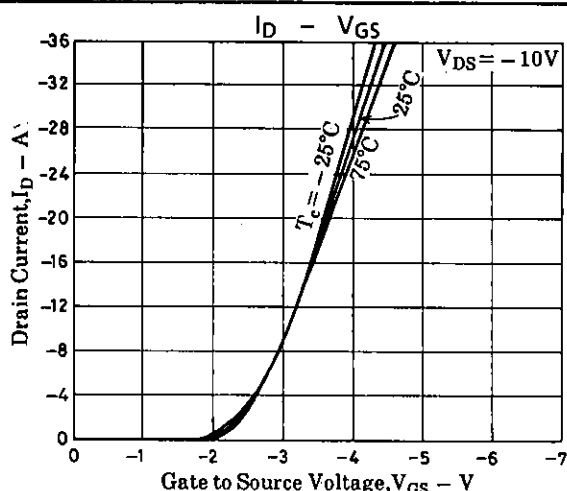
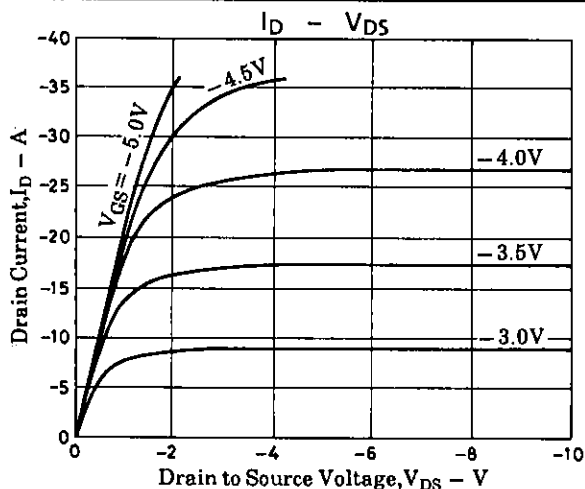
Package Dimensions 2063

(unit : mm)

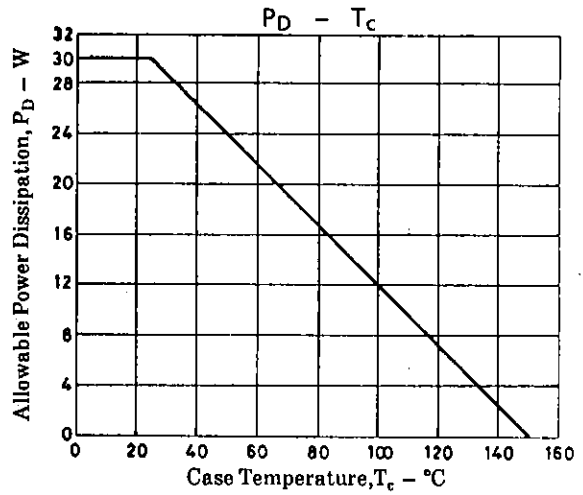
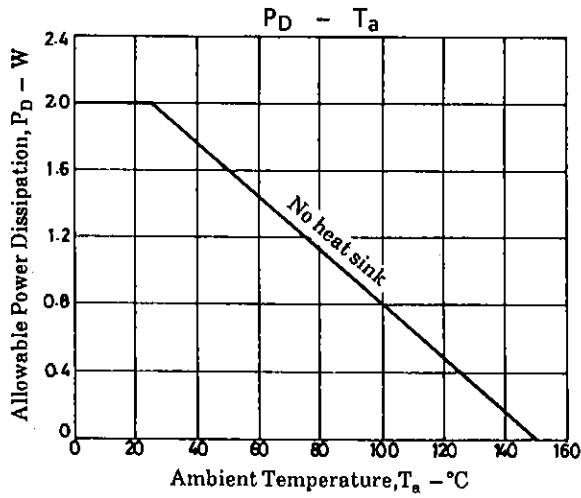


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