

FJ3503010L

Silicon P-channel MOSFET

For switching

FJ330301 in SMini3 type package

■ Features

- Low drive voltage: 2.5 V drive
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

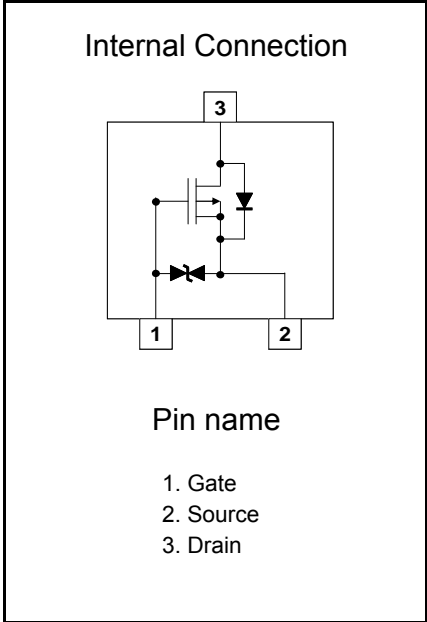
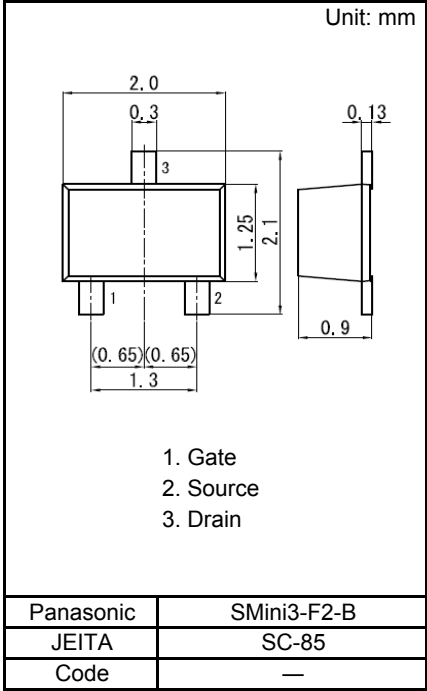
■ Marking Symbol: U1

■ Packaging

FJ3503010L Embossed type (Thermo-compression sealing):
3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Drain-source Voltage	VDS	-30	V
Gate-source Voltage	VGS	±12	V
Drain current	ID	-100	mA
Drain Current (Pulsed)	IDp	-200	mA
Total Power Dissipation	PD	150	mW
Channel Temperature	Tch	150	°C
Storage Temperature Range	Tstg	-55 to +150	°C



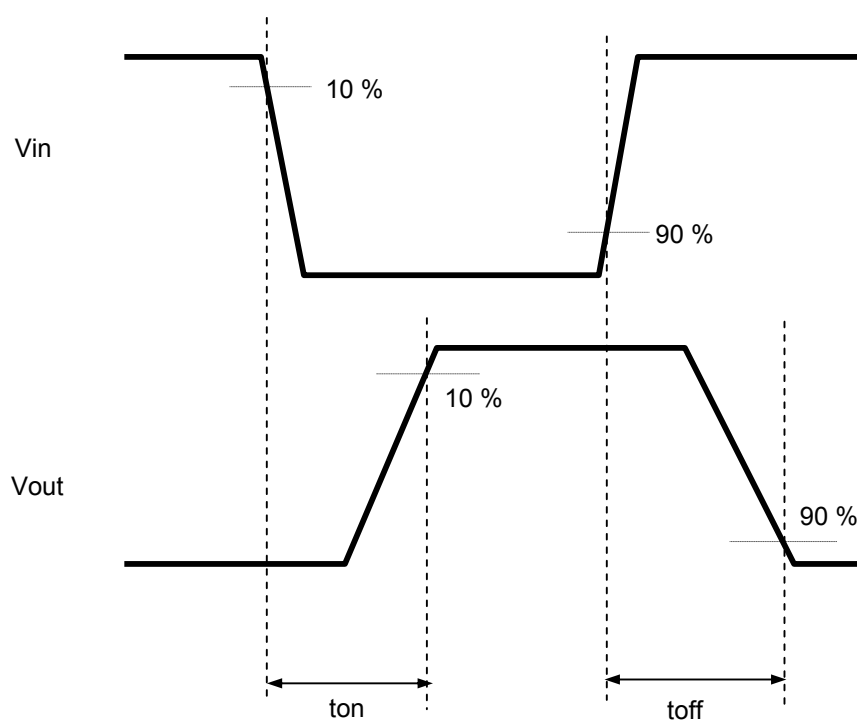
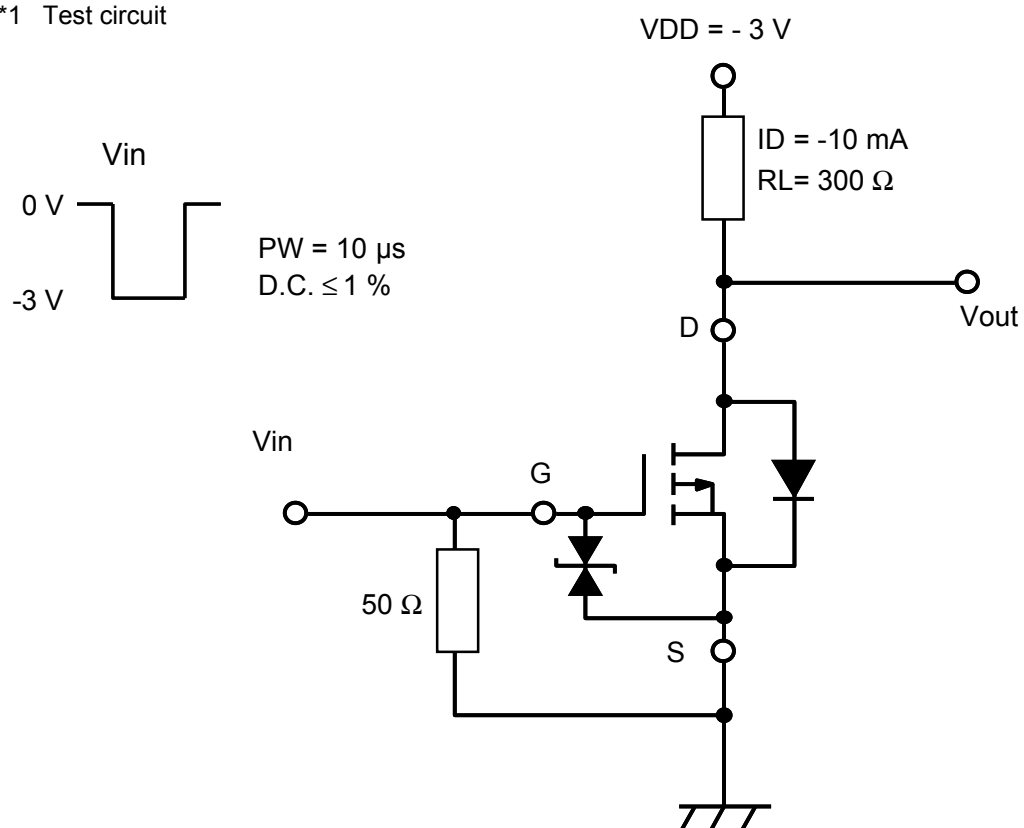
■ Electrical Characteristics Ta = 25 °C ± 3 °C

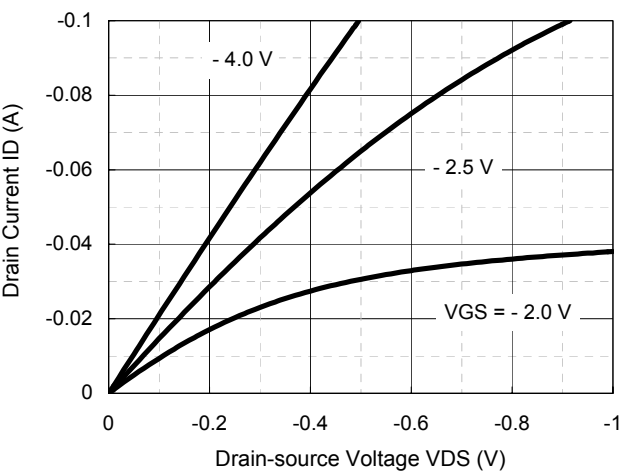
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Drain-source Breakdown Voltage	VDSS	ID = -1 mA, VGS = 0 V	-30			V
Zero Gate Voltage Drain Current	IDSS	VDS = -30 V, VGS = 0 V			-1.0	μA
Gate-source Leakage Current	IGSS	VGS = ±10 V, VDS = 0 V			±10	μA
Gate-source Threshold Voltage	Vth	ID = -1.0 μA, VDS = -3.0 V	-0.5	-1.0	-1.5	V
Drain-source On-state Resistance	RDS(on)1	ID = -10 mA, VGS = -2.5 V		7	17	Ω
	RDS(on)2	ID = -10 mA, VGS = -4.0 V		4	7	
Forward transfer admittance	Yfs	ID = -10 mA, VDS = -3 V	20	40		mS
Input Capacitance	Ciss	VDS = -3 V, VGS = 0 V, f = 1 MHz		12		pF
Output Capacitance	Coss			7		
Reverse Transfer Capacitance	Crss			3		
Turn-on Time *1	ton	VDD = -3 V, VGS = 0 V to -3 V ID = -10 mA		100		ns
Turn-off Time *1	toff	VDD = -3 V, VGS = -3 V to 0 V ID = -10 mA		100		ns

Note: Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

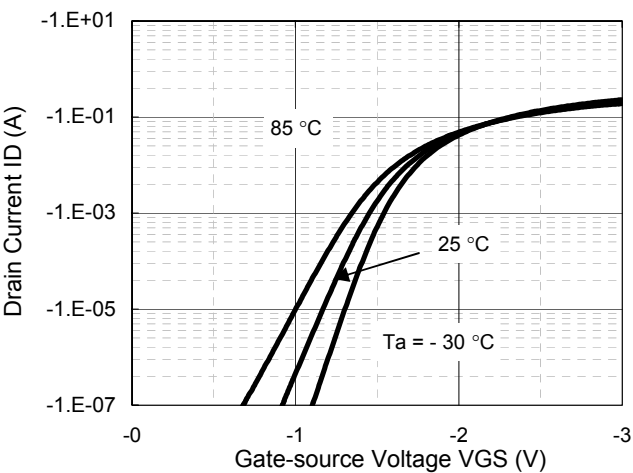
*1 See Test circuit.

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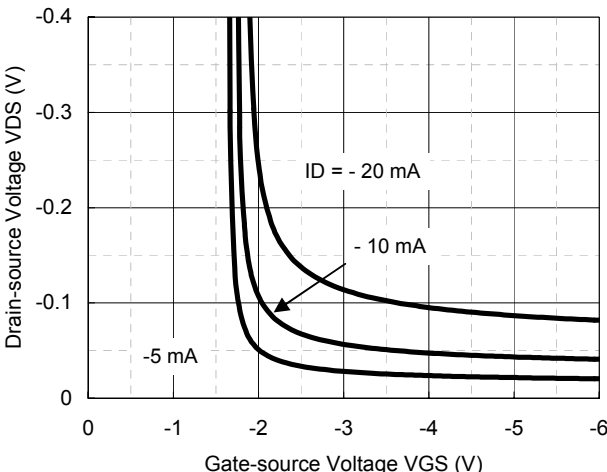




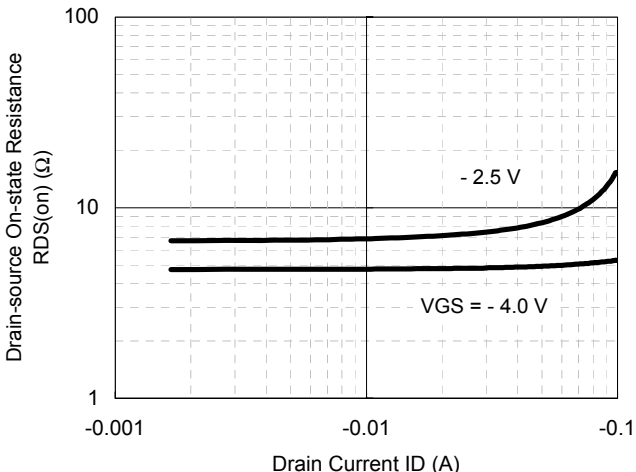
ID - VDS



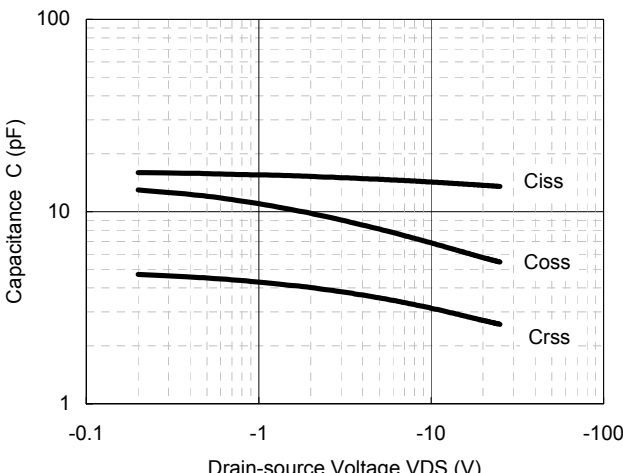
ID - VGS



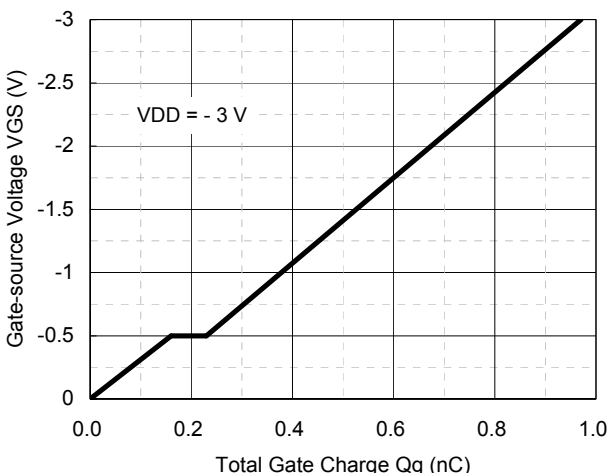
VDS - VGS



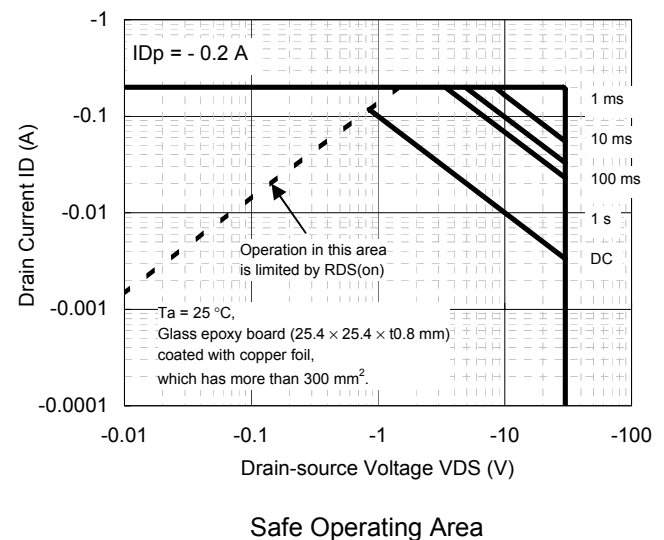
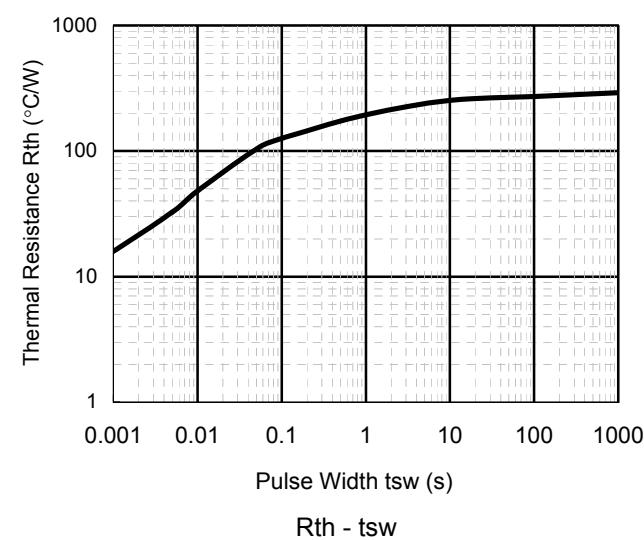
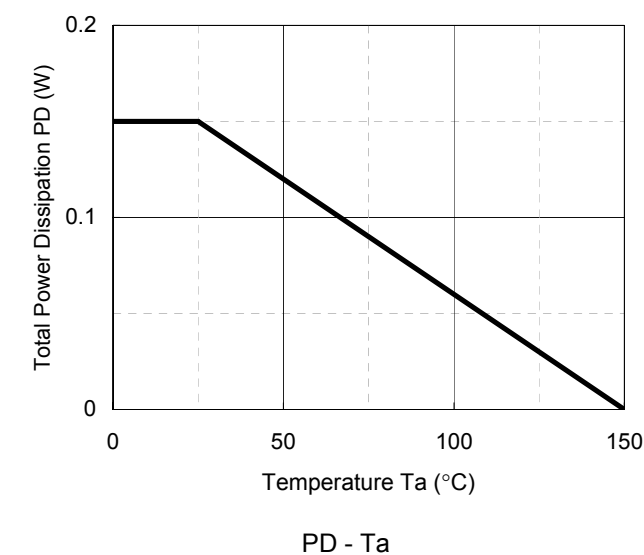
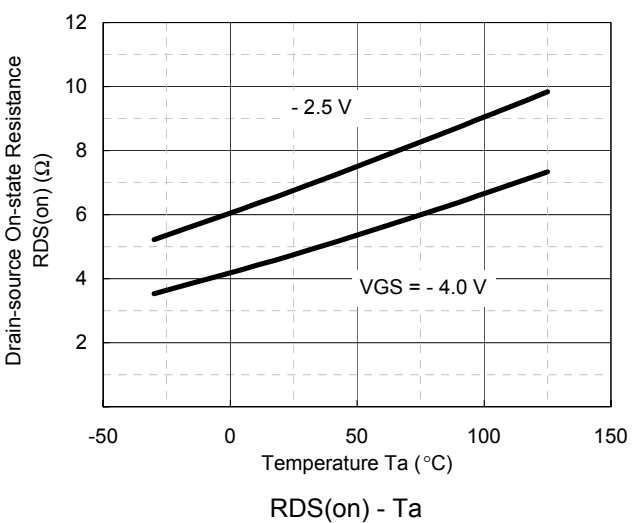
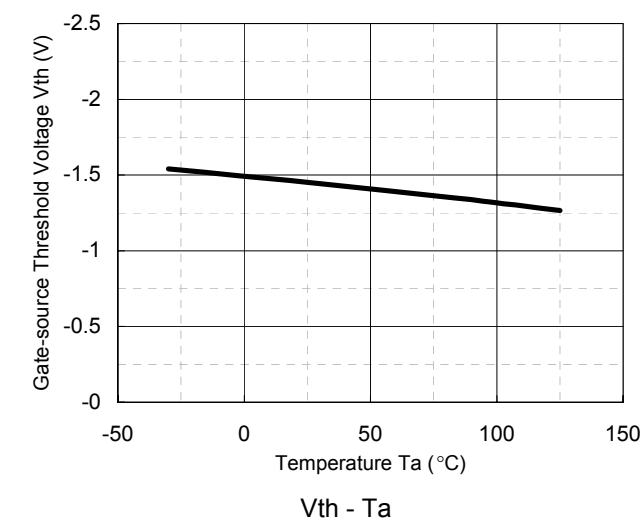
RDS(on) - ID



Capacitance - VDS

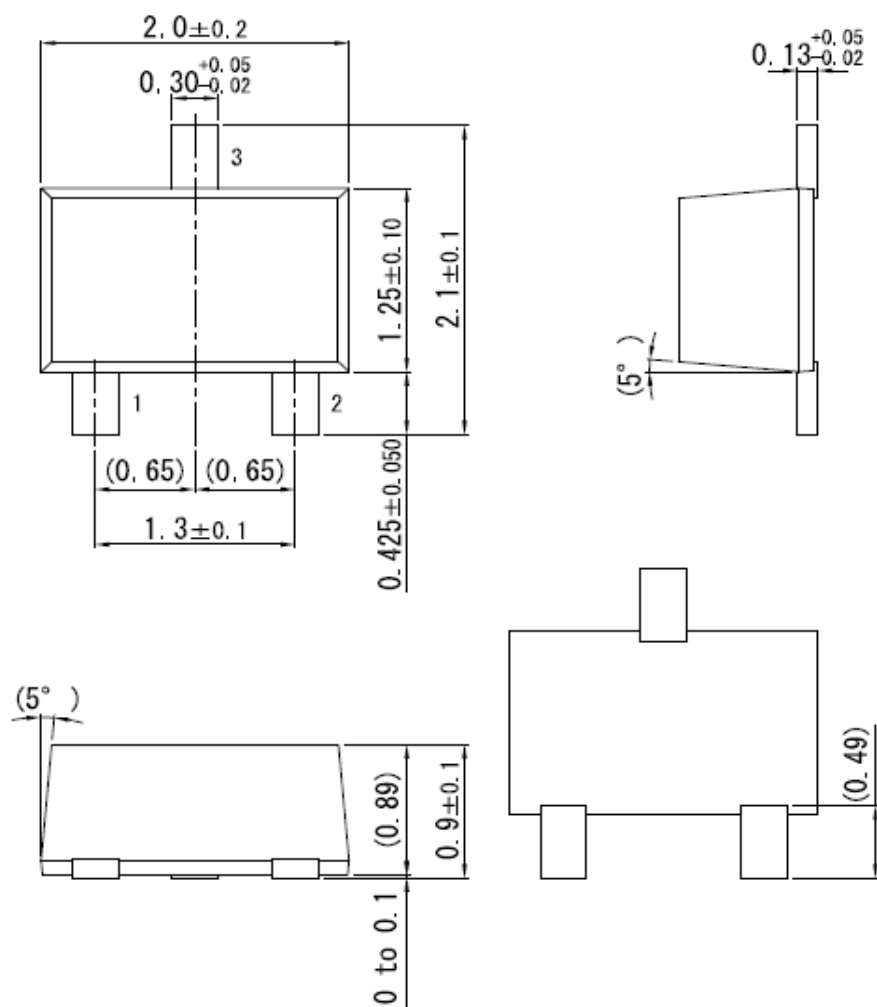


Dynamic Input/Output Characteristics

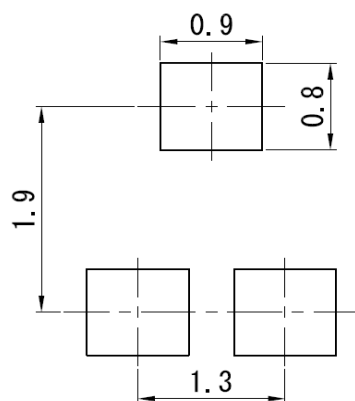


SMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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