FJ330301

Silicon P-channel MOS FET

For switching circuits

Overview

FJ330301 is P-channel small signal MOS FET employed small size surface mounting package.

■ Features

- \bullet Low drain-source ON resistance: $R_{DS(on)}$ typ. = 4 Ω (V $_{GS}$ = -4.0 V)
- High-speed switching
- Small size surface mounting package: SSSMini3-F2-B
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

Packaging

Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Drain-source surrender voltage	V _{DSS}	-30	V
Gate-source surrender voltage	V _{GSS}	±12	V
Drain current	I_D	-100	mA
Peak drain current	I_{DP}	-200	mA
Power dissipation	P_{D}	100	mW
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

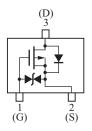
■ Package

• Code

SSSMini3-F2-B

- Pin Name
 - 1: Gate
 - 2: Source
 - 3: Drain
- Marking Symbol: U1

■ Internal Connection



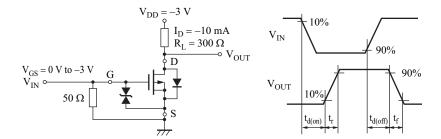
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■ Electrical Characteristics $T_a = 25$ °C±3°C

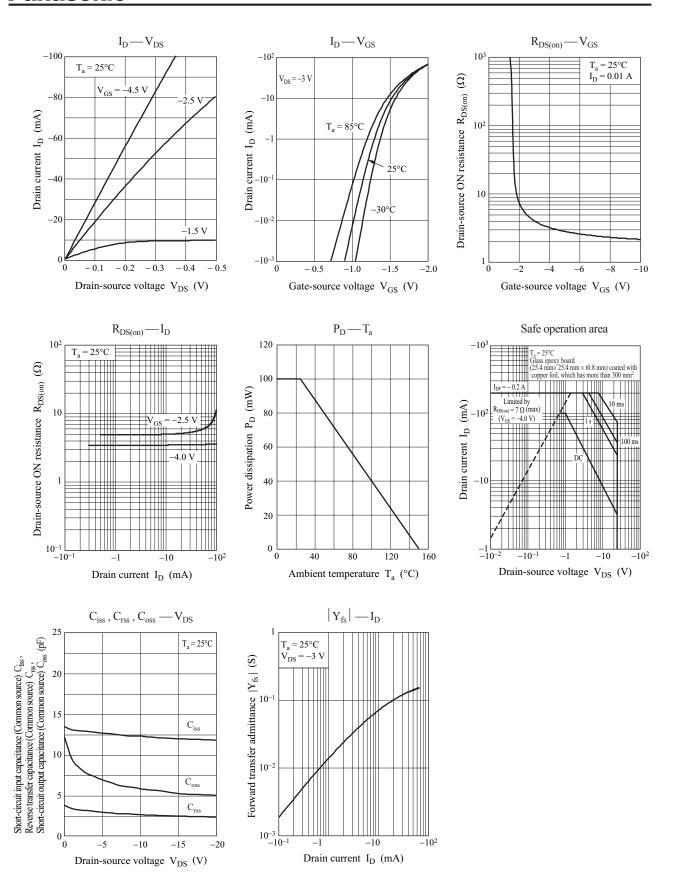
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source surrender voltage	V _{DSS}	$I_D = -1 \text{ mA}, V_{GS} = 0$	-30			V
Drain-source cutoff current	I_{DSS}	$V_{DS} = -30 \text{ V}, V_{GS} = 0$			-1.0	μΑ
Gate-source cutoff current	I_{GSS}	$V_{GS} = \pm 10 \text{ V}, V_{DS} = 0$			±10	μА
Gate threshold voltage	V _{TH}	$I_D = -1.0 \mu\text{A}, V_{DS} = -3.0 \text{V}$	- 0.5	- 1.0	-1.5	V
Drain-source ON resistance	R _{DS(on)}	$I_D = -10 \text{ mA}, V_{GS} = -2.5 \text{ V}$		7	17	Ω
		$I_D = -10 \text{ mA}, V_{GS} = -4.0 \text{ V}$		4	7	Ω
Forward transfer admittance	Yfs	$I_D = -10 \text{ mA}, V_{DS} = -3 \text{ V}$	20	40		mS
Short-circuit input capacitance (Common source)	C _{iss}	$V_{DS} = -3 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		12		pF
Short-circuit output capacitance (Common source)	C _{oss}			7		pF
Reverse transfer capacitance (Common source)	C _{rss}			3		pF
Turn-on time *	t _{on}	$V_{DD} = -3 \text{ V}, V_{GS} = 0 \text{ V to } -3 \text{ V},$ $I_D = -10 \text{ mA}$		100		ns
Turn-off time *	t _{off}	$V_{DD} = -3 \text{ V}, V_{GS} = -3 \text{ V to } 0 \text{ V},$ $I_D = -10 \text{ mA}$		100		ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Test circuit

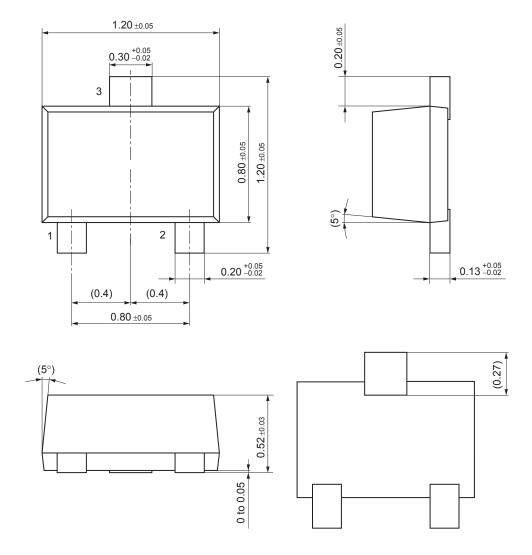


Panasonic FJ330301



SSSMini3-F2-B

Unit: mm



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