2SK2593J

Silicon N-channel junction FET

For low-frequency amplification For switching circuits

■ Features

- Low noise figure NF
- ullet High gate-drain voltage (source open) V_{GDO}
- SSMini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Drain-sourse voltage	V _{DS}	55	V	
Gate-drain voltage (Source open)	V_{GDO}	-55	V	
Gate-source voltage (Drain open)	V_{GSO}	-55	V	
Drain current	I_D	30	mA	
Gate current	I_G	10	mA	
Power dissipation	P_{D}	125	mW	
Channel temperature	T _{ch}	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	

Package

- Code SSMini3-F1
- Pin Name
 - 1: Source
 - 2: Drain
- 3: Gate

Marking Symbol: 2B

■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

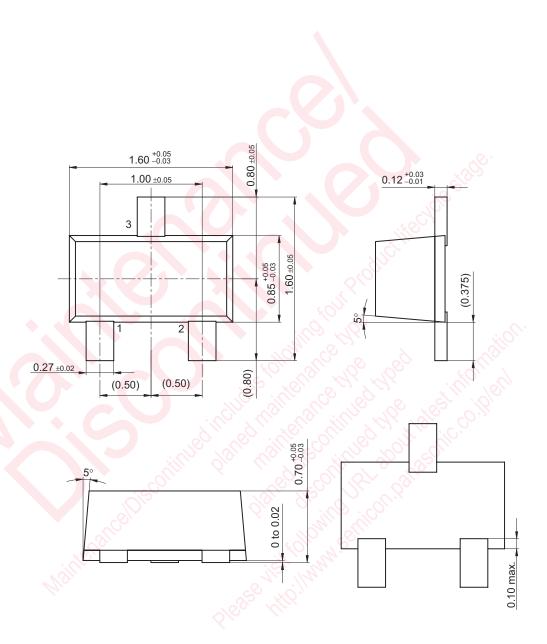
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate-drain surrender voltage	V _{GDS}	$I_G = -100 \mu\text{A}, V_{DS} = 0$	-55	cO),,		V
Drain-source current *	I_{DSS}	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	1.0	0.9	6.5	mA
Gate-source cutoff current	I_{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	~ 50°		-10	nA
Gate-source cutoff voltage	V_{GSC}	$V_{DS} = 10 \text{ V}, I_{D} = 10 \mu A$			-5	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 10 \text{ V}, I_D = 5 \text{ mA}, f = 1 \text{ kHz}$	2.5	7.5		mS
Short-circuit forward transfer capacitance (Common source)	C _{iss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		6.5		pF
Reverse transfer capacitance (Common source)	C _{rss}	26 112 1/My		1.9		pF
Noise figure	NF	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 100 \text{ Hz}$ $R_g = 100 \text{ k}\Omega$		2.5		dB

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

2. *: Rank classification

Rank	Р	Q
I _{DSS} (mA)	1.0 to 3.0	2.0 to 6.5

SSMini3-F1 Unit: mm



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