2SK2593G

Silicon N-channel junction FET

For low-frequency amplification For switching circuits

Features

- Low noise figure NF
- \bullet 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 $T_a = 25^{\circ}C$

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	۶°C

Package

- Code
- SSMini3-F3
- Pin Name
 - 1: Source 2: Drain
 - 3: Gate

Marking Symbol: 2B

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

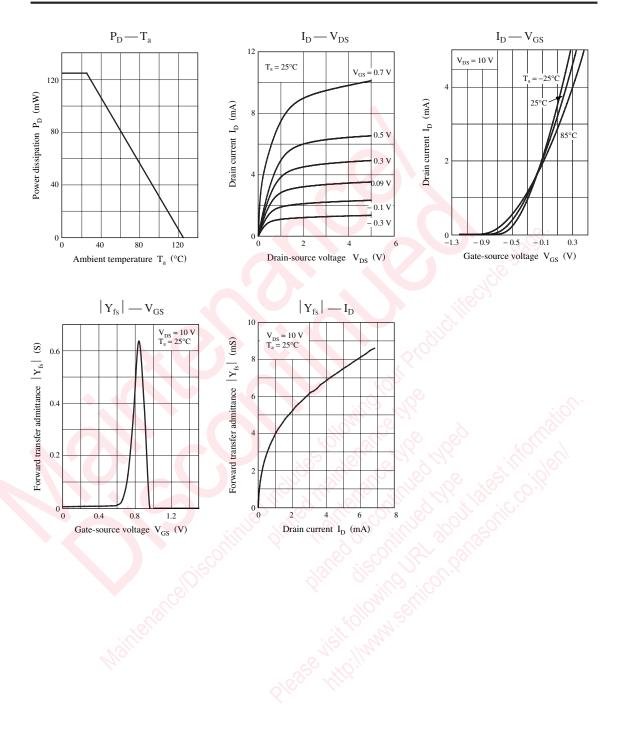
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate-drain surrender voltage	V _{GDS}	$I_{G} = -100 \ \mu A, V_{DS} = 0$	-55	co'i		V
Drain-source current *	I _{DSS}	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	1.0	0	6.5	mA
Gate-source cutoff current	I _{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	200		-10	nA
Gate-source cutoff voltage	V _{GSC}	$V_{DS} = 10 \text{ V}, I_D = 10 \mu \text{A}$			-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}	28 MB		1.9		pF
Noise figure	NF	$V_{DS} = 10 \text{ V}, V_{GS} = 0, \text{ f} = 100 \text{ Hz}$		2.5		dB
		$R_g = 100 \text{ k}\Omega$				

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

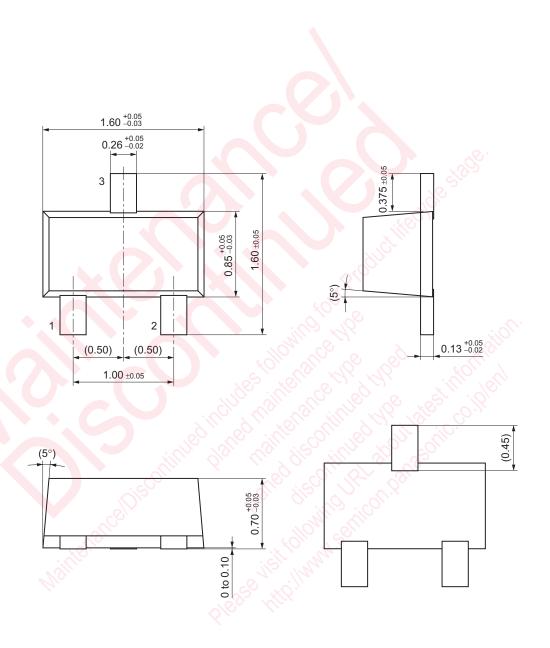
Panasonic



Panasonic

SSMini3-F3

Unit: mm



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