2SK0663G

Silicon N-channel junction FET

For low-frequency amplification For switching circuits

■ Features

- Low noise figure NF
- High gate-drain voltage (source open) V_{GDO}
- SMini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine 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}	150	mW	
Channel temperature	T _{ch}	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

Package

- Code
- SMini3-F2
- Pin Name
 - 1: Source
 - 2: Drain
- 3: Gate

■ Marking Symbol: 2B

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

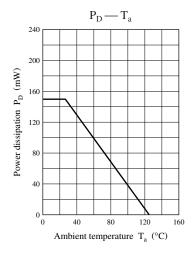
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate-drain surrender voltage	V _{GDS}	$I_G = -100 \ \mu A, \ V_{DS} = 0$	55	80		V
Drain-source current *	$I_{ m DSS}$	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	1.0	O	12.0	mA
Gate-source cutoff current	I_{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	1.90		-10	nA
Gate-source 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}	28 110 HM		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

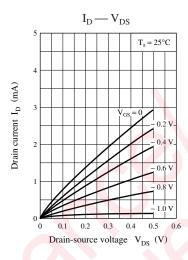
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

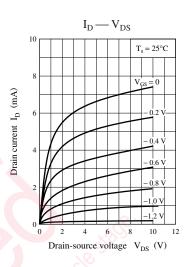
2. *: Rank classification

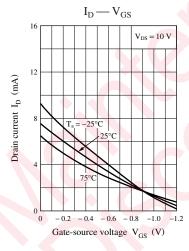
Rank	Р	Q	R
I _{DSS} (mA)	1.0 to 3.0	2.0 to 6.5	5.0 to 12.0

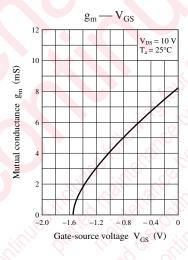
Note) The part number in the parenthesis shows conventional part number.

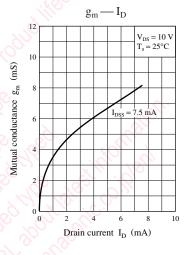


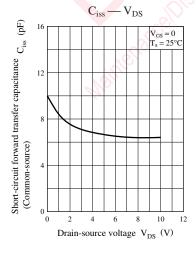


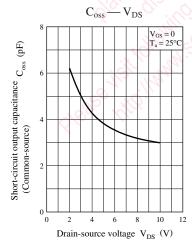






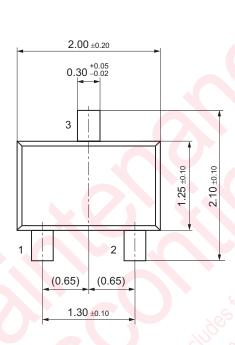


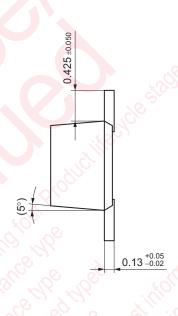


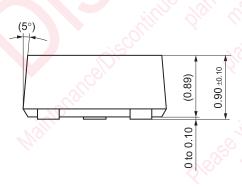


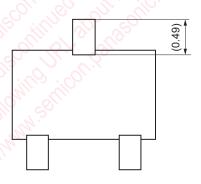
SMini3-F2











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