2SK2751

Silicon N-channel junction FET

For impedance conversion in low frequency For pyroelectric sensor

■ Features

- Low noise-figure NF
- High gate-drain voltage (Source open) V_{GDO}
- Mini 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	
Gate-drain surrender voltage	V _{GDS}	-40	V	
Drain current	I_D	10	mA	
Gate current	I_G	2	mA	
Power dissipation	P_{D}	200	mW	
Channel temperature	T _{ch}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

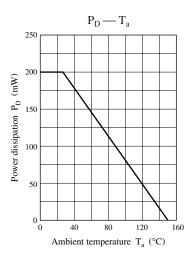
Package

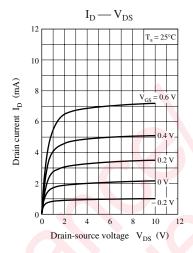
- Code Mini3-G1
- Pin Name
 - 1: Source
 - 2: Drain
- 3: Gate
- Marking Symbol: HS

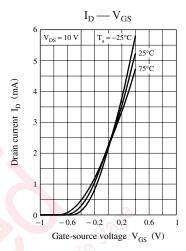
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

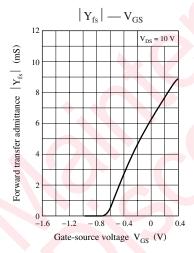
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate-drain surrender voltage	V _{GDS}	$I_G = -100 \mu\text{A}, V_{DS} = 0$	-40	0,		V
Drain-source current	$I_{ m DSS}$	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	1.4	0	4.7	μΑ
Gate-source cutoff current	I_{GSS}	$V_{GS} = -20 \text{ V}, V_{DS} = 0$	2.0		-1.0	μΑ
Gate-source cutoff voltage	V _{GSC}	$V_{DS} = 10 \text{ V}, I_D = 1 \mu A$			-3.5	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 10 \text{ V}, I_D = 1 \text{ mA}, f = 1 \text{ kHz}$	2.5			mS
Short-circuit forward transfer capacitance (Common source)	C _{iss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		5.0		pF
Short-circuit output capacitanc (Common source)	C _{oss}	28 110 : W		1.0		pF
Reverse transfer capacitance (Common source)	C _{rss}	Geo Kin		1.0		pF

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

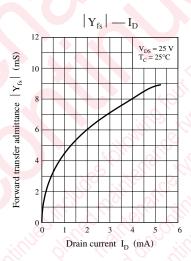




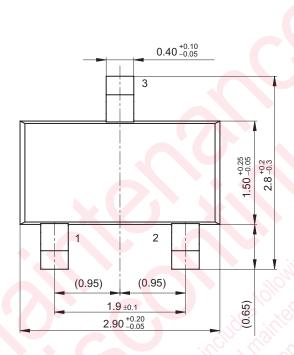


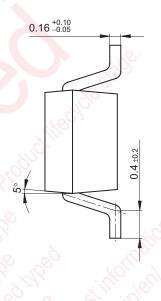


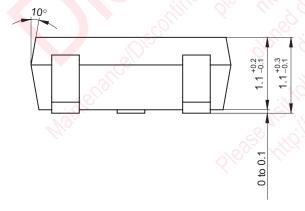
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Mini3-G1 Unit: mm







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