

# 2SK2751

## Silicon N-Channel Junction FET

For impedance conversion in low frequency

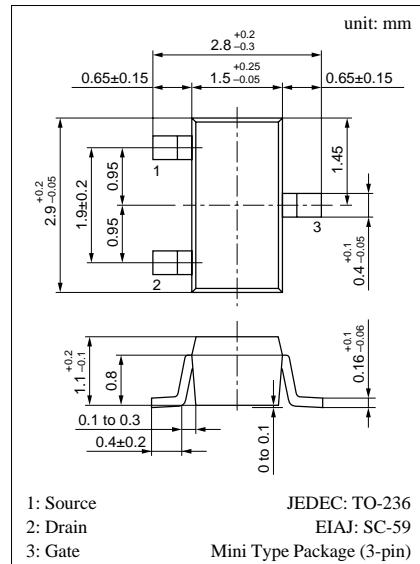
For pyroelectric sensor

### ■ Features

- Low noise-figure (NF)
- High gate to drain voltage  $V_{GDO}$
- Mini-type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing.

### ■ Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Ratings	Unit
Gate to Drain voltage	$V_{GDS}$	-40	V
Drain current	$I_D$	10	mA
Gate current	$I_G$	2	mA
Allowable power dissipation	$P_D$	200	mW
Channel temperature	$T_{ch}$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$



Marking Symbol: HS

### ■ Electrical Characteristics ( $T_a = 25 \pm 3^\circ\text{C}$ )

Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	$I_{DSS}$	$V_{DS} = 10\text{V}$ , $V_{GS} = 0$	1.4		4.7	mA
Gate to Source leakage current	$I_{GSS}$	$V_{GS} = -20\text{V}$ , $V_{DS} = 0$			-1	nA
Gate to Drain voltage	$V_{GDS}$	$I_G = -100\mu\text{A}$ , $V_{DS} = 0$	-40			V
Gate to Source cut-off voltage	$V_{GSC}$	$V_{DS} = 10\text{V}$ , $I_D = 1\mu\text{A}$			-3.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 10\text{V}$ , $I_D = 1\mu\text{A}$ , $f = 1\text{kHz}$	2.5			mS
Input capacitance (Common Source)	$C_{iss}$	$V_{DS} = 10\text{V}$ , $V_{GS} = 0$ , $f = 1\text{MHz}$		5		pF
Output capacitance (Common Source)	$C_{oss}$			1		pF
Reverse transfer capacitance (Common Source)	$C_{rss}$			1		pF

Note: The test method to comply with JISC7030, Field effect transistor test method.

