

# 2SK3396

## Silicon N-Channel Junction FET

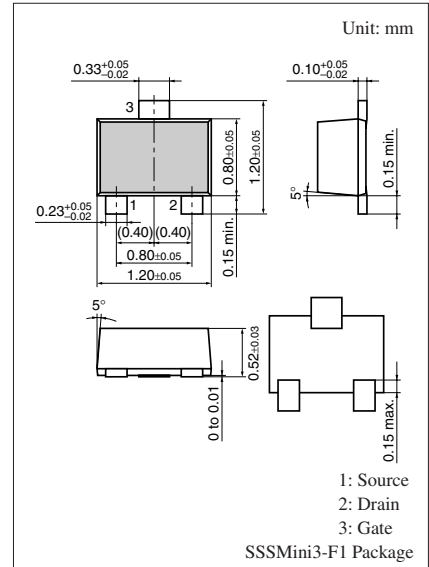
For impedance conversion in low frequency  
For infrared sensor

### ■ Features

- Low gate-source cutoff current  $I_{GSS}$
- Small capacitance of short-circuit forward transfer capacitance (common source)  $C_{iss}$ , short-circuit output capacitance (common source)  $C_{oss}$ , reverse transfer capacitance (common source)  $C_{rss}$

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

Parameter	Symbol	Rating	Unit
Gate-drain voltage (Source open)	$V_{GDO}$	-40	V
Gate-source voltage (Drain open)	$V_{GSO}$	-40	V
Gate current	$I_G$	10	mA
Drain current	$I_D$	1	mA
Power dissipation	$P_D$	100	mW
Channel temperature	$T_{ch}$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

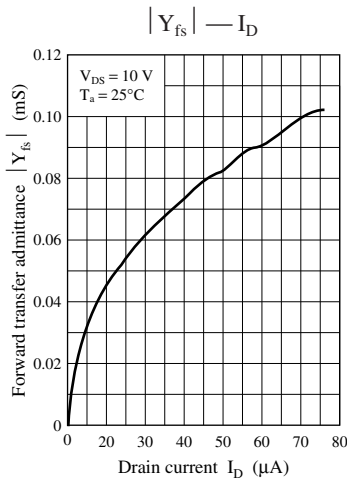
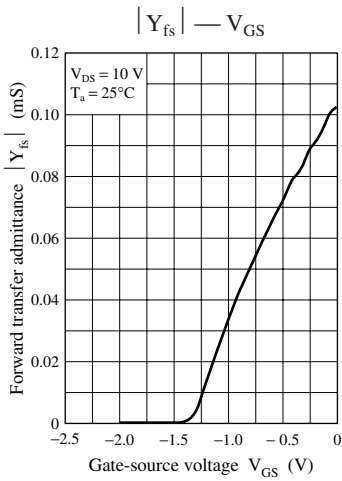
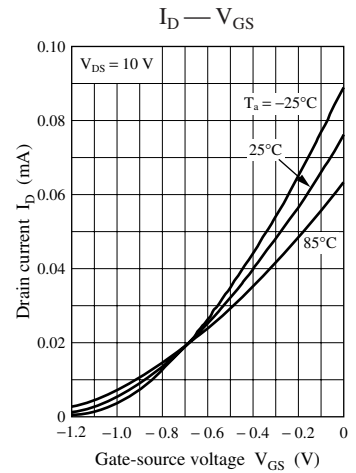
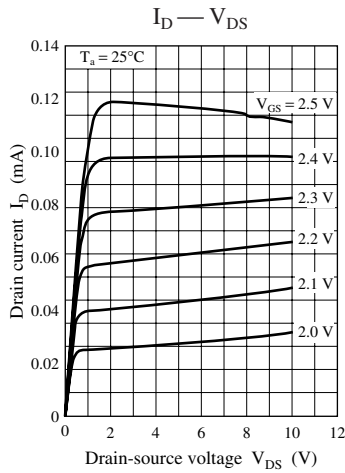
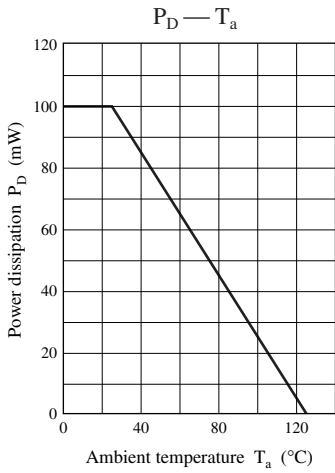


Marking Symbol: EB

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain surrender voltage	$V_{GDS}$	$I_G = -10 \mu\text{A}$ , $V_{DS} = 0$	-40			V
Drain-source cutoff current	$I_{DSS}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$	30		200	$\mu\text{A}$
Gate-source cutoff current	$I_{GSS}$	$V_{GS} = -20 \text{ V}$ , $V_{DS} = 0$			-0.5	nA
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$ , $f = 1 \text{ kHz}$	0.05			mS
Gate-source cutoff voltage	$V_{GSC}$	$V_{DS} = 10 \text{ V}$ , $I_D = 1 \mu\text{A}$		-1.3	-3.0	V
Short-circuit forward transfer capacitance (Common source)	$C_{iss}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$ , $f = 1 \text{ MHz}$		1.0		pF
Short-circuit output capacitance (Common source)	$C_{oss}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$ , $f = 1 \text{ MHz}$		0.4		pF
Reverse transfer capacitance (Common source)	$C_{rss}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$ , $f = 1 \text{ MHz}$		0.4		pF

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



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