## 2SK2380

### Silicon N-Channel Junction FET

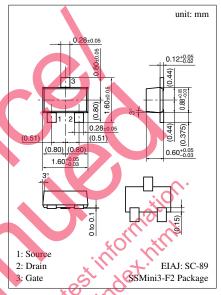
For impedance conversion in low frequency For infrared sensor

#### ■ Features

- Low gate to source leakage current, I<sub>GSS</sub>
- ullet Small capacitance of  $C_{iss}$ ,  $C_{oss}$ ,  $C_{rss}$
- SS-mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing.

#### ■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Gate to Drain voltage	V <sub>GDO</sub>	-40	V
Gate to Source voltage	$V_{GSO}$	-40	V
Drain current	$I_{\mathrm{D}}$	±l	mA
Gate current	$I_G$	10	mA
Allowable power dissipation	P <sub>D</sub>	125	mW
Channel temperature	T <sub>ch</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C



Marking Symbol (Example): EB

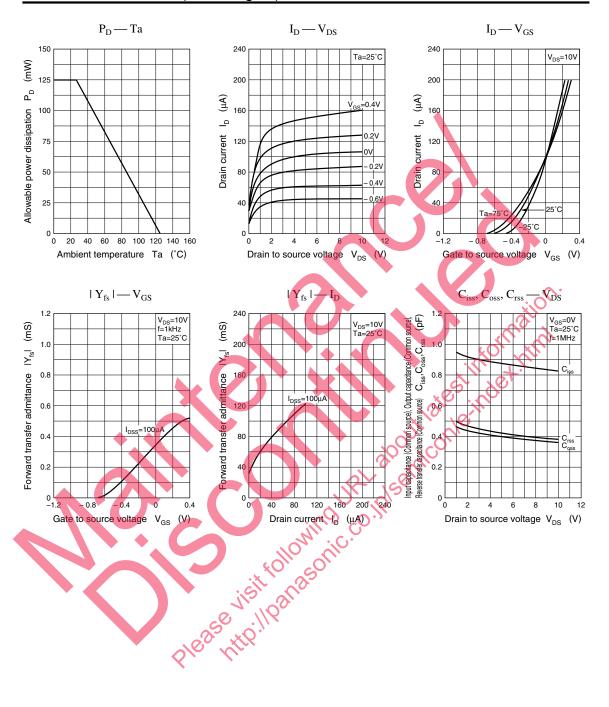
#### ■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol		Conditions	min	typ	max	Unit
Drain to Source cut-off current	I <sub>DSS</sub> *	$V_{\rm DS} =$	$10V, V_{GS} = 0$	50		200	μΑ
Gate to Source leakage current	I <sub>GSS</sub>	$V_{GS} =$	$-20V$ , $V_{DS} = 0$			- 0.5	nA
Gate to Drain voltage	V <sub>DS</sub>	$I_G = -1$	$10\mu\text{A} \text{ V}_{\text{DS}} = 0$	-40			V
Gate to Source cut-off voltage	V <sub>GSC</sub>	V <sub>DS</sub> =	10V, I <sub>D</sub> €)μΑ		-1.3	-3	V
Forward transfer admittance	Y <sub>fs</sub>	V <sub>DS</sub> =	$10V_{GS} = 0$ , $f = 1kHz$	0.05			mS
Input capacitance (Common Source)	Ciss	۱. د			1		pF
Output capacitance (Common Source)	Coss	V <sub>DS</sub> =	$10V, V_{GS} = 0, f = 1MHz$		0.4		pF
Reverse transfer capacitance (Common Source)	$C_{ m rss}$	11.			0.4		pF

<sup>\*</sup> I<sub>DSS</sub> rank classification

Runk	Q	R	S
I <sub>DSS</sub> (mA)	50 to 100	70 to 130	100 to 200
Marking Symbol	EBQ	EBR	EBS

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