2SK2380

Silicon N-Channel Junction FET

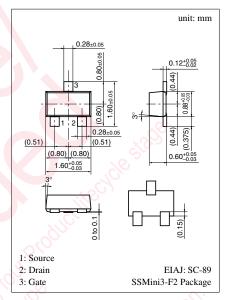
For impedance conversion in low frequency For infrared sensor

■ Features

- Low gate to source leakage current, I_{GSS}
- 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_{GDO} | -40 | V | |
| Gate to Source voltage | V _{GSO} | -40 | V | |
| Drain current | I_{D} | ±1 | mA | |
| Gate current | I_G | 10 | mA | |
| Allowable power dissipation | P_{D} | 125 | mW | |
| Channel temperature | T _{ch} | 125 | °C | |
| Storage temperature | T _{stg} | -55 to +125 | °C O | |



Marking Symbol (Example): EB

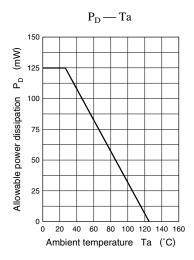
■ Electrical Characteristics (Ta = 25°C)

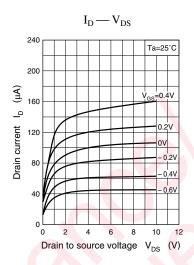
| Parameter | Symbol | Conditions | min | typ | max | Unit |
|--|--------------------|--------------------------------------|------|------|-------|------|
| Drain to Source cut-off current | I _{DSS} * | $V_{DS} = 10V, V_{GS} = 0$ | 50 | | 200 | μA |
| Gate to Source leakage current | I_{GSS} | $V_{GS} = -20V, V_{DS} = 0$ | | | - 0.5 | nA |
| Gate to Drain voltage | V_{DS} | $I_{G} = -10\mu A, V_{DS} = 0$ | -40 | 3 | | V |
| Gate to Source cut-off voltage | V_{GSC} | $V_{DS} = 10V, I_D = 1\mu A$ | | -1.3 | -3 | V |
| Forward transfer admittance | $ Y_{fs} $ | $V_{DS} = 10V, V_{GS} = 0, f = 1kHz$ | 0.05 | | | mS |
| Input capacitance (Common Source) | C _{iss} | 1, 10, 14 | | 1 | | pF |
| Output capacitance (Common Source) | Coss | $V_{DS} = 10V, V_{GS} = 0, f = 1MHz$ | | 0.4 | | pF |
| Reverse transfer capacitance (Common Source) | C _{rss} | coi.) | | 0.4 | | pF |

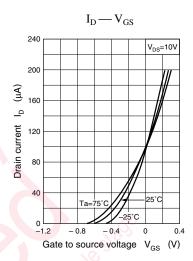
^{*} I_{DSS} rank classification

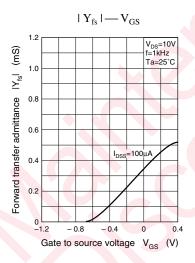
| Runk | Q | R | S |
|-----------------------|-----------|-----------|------------|
| I _{DSS} (mA) | 50 to 100 | 70 to 130 | 100 to 200 |
| Marking Symbol | EBQ | EBR | EBS |

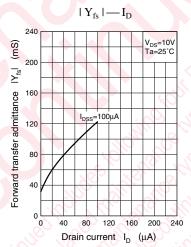
262 Panasonic

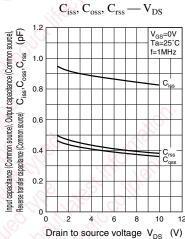












263

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