## 2SK0198 (2SK198)

### Silicon N-channel junction FET

For low-frequency amplification

#### Features

- High mutual conductance gm
- Low-noise characteristics
- Mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing

### Code

Mini3-G1 • Pin Name

Package

- 1: Source
- 2: Drain
- 3: Gate

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

Parameter	Symbol	Rating	Unit	
Drain-sourse voltage	V <sub>DS</sub>	30	V	
Drain-gate voltage (Source open)	V <sub>DGO</sub>	30	V	
Drain current	I <sub>D</sub>	20	mA	
Gate current	I <sub>G</sub>	10	mA	
Power dissipation	P <sub>D</sub>	150	mW	
Channel temperature	T <sub>ch</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

# Marking Symbol: 10

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

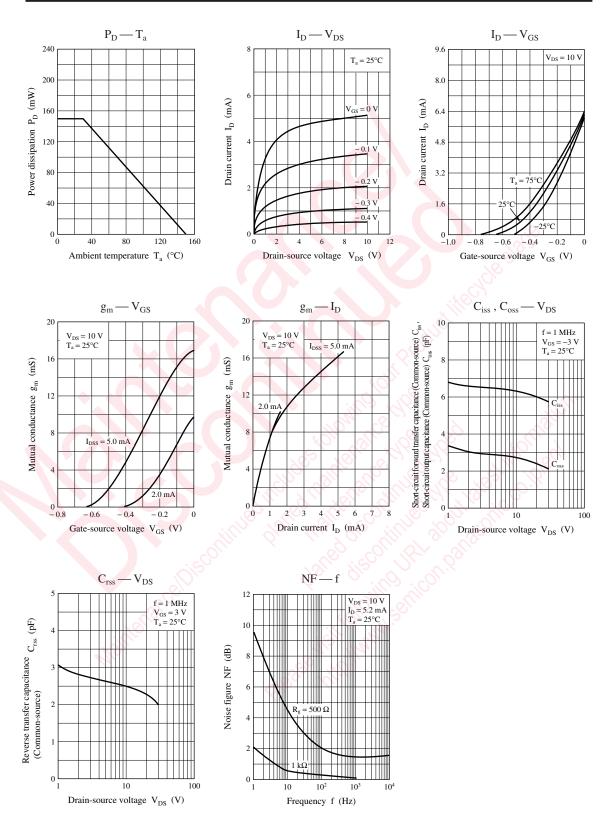
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source current *	I <sub>DSS</sub>	$V_{DS} = 10 V, V_{GS} = 0$	0.5	SOU	12	mA
Gate-source cutoff current	I <sub>GSS</sub>	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	al.	0	100	nA
Gate-source cutoff voltage	V <sub>GSC</sub>	$V_{DS} = 10 \text{ V}, \text{ I}_{D} = 10 \mu\text{A}$	0.1		1.5	V
Forward transfer admittance	Y <sub>fs</sub>	$V_{DS} = 10 \text{ V}, \text{ I}_{D} = 0.5 \text{ mA}, \text{ f} = 1 \text{ kHz}$	4			mS
		$V_{DS} = 10 V, V_{GS} = 0, f = 1 kHz$	4			
Short-circuit forward transfer capacitance (Common source)	C <sub>iss</sub>	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		14		pF
Reverse transfer capacitance (Common source)	C <sub>rss</sub>	Se Ne Institut		3.5		pF
0		$\begin{split} V_{DS} &= 30 \text{ V}, \text{ I}_{D} = 1 \text{ mA}, \text{ G}_{V} = 80 \text{ dB} \\ \text{R}_{g} &= 100 \text{ k}\Omega, \text{ Function} = \text{FLAT} \end{split}$		60		mV

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. \*: Rank classification

Rank	Р	Q	R
I <sub>DSS</sub> (mA)	0.5 to 3.0	2.0 to 6.0	4.0 to 12.0

Note) The part number in the parenthesis shows conventional part number.

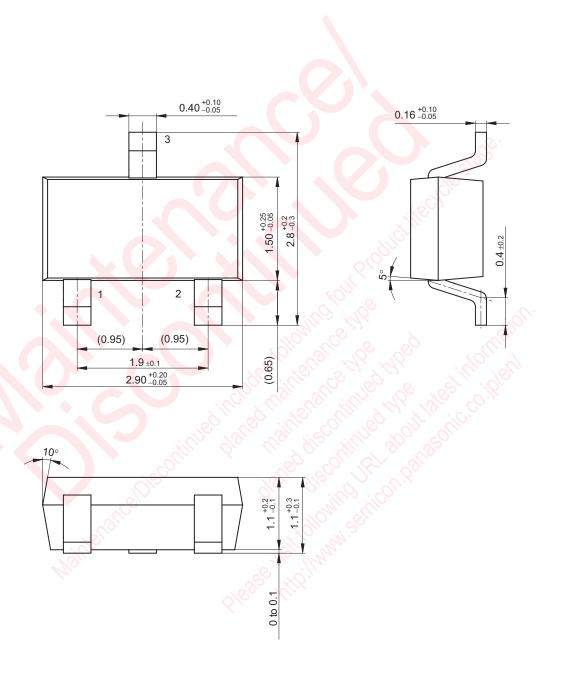
#### 2SK0198



### Panasonic

Mini3-G1

Unit: mm



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