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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

PackageCode

- Mini3-G1
- Pin Name
 - 1: Source
 - 2: Drain
 - 3: Gate

Marking Symbol: 10

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

Parameter	Symbol	Rating	Unit	
Drain-sourse voltage	V _{DS}	30	V	
Drain-gate voltage (Source open)	V _{DGO}	30	V	
Drain current	I _D	20	mA	
Gate current	I _G	10	mA	
Power dissipation	P _D	150	mW	
Channel temperature	T _{ch}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

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

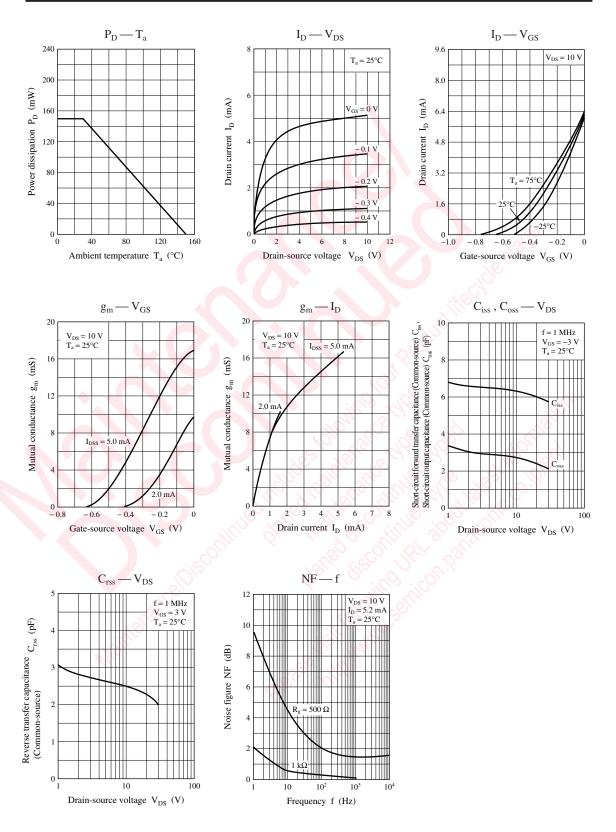
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source current *	I _{DSS}	$V_{DS} = 10 V, V_{GS} = 0$	0.5	SOL	12	mA
Gate-source cutoff current	I _{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	Jan S	0	100	nA
Gate-source cutoff voltage	V _{GSC}	$V_{DS} = 10 \text{ V}, \text{ I}_{D} = 10 \mu\text{A}$	0.1		1.5	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 10 \text{ V}, \text{ I}_{D} = 0.5 \text{ mA}, \text{ f} = 1 \text{ kHz}$	4			mS
		$V_{DS} = 10 V, V_{GS} = 0, f = 1 kHz$	4			
Short-circuit forward transfer capacitance	C _{iss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		14		pF
(Common source)		i cit alle				
Reverse transfer capacitance	C _{rss}	July in the		3.5		pF
(Common source)		25° ×0.				
Noise voltage	NV	$V_{DS} = 30 \text{ V}, I_D = 1 \text{ mA}, G_V = 80 \text{ dB}$		60		mV
		$R_g = 100 \text{ k}\Omega$, Function = FLAT				

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 _{DSS} (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.

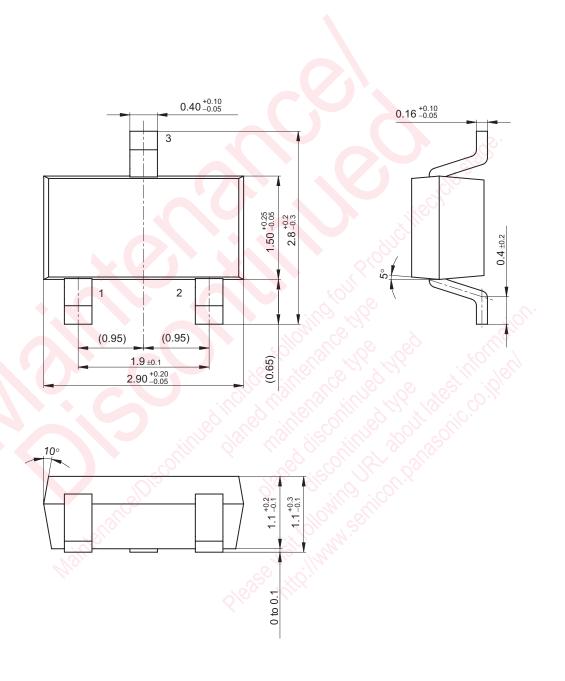
2SK0198



Panasonic

Mini3-G1

Unit: mm



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