# 2SJ498

FOR LOW FREQUENCY AMPLIFY APPLICATION P CHANNEL JUNCTION TYPE MICRO

### **DESCRIPTION**

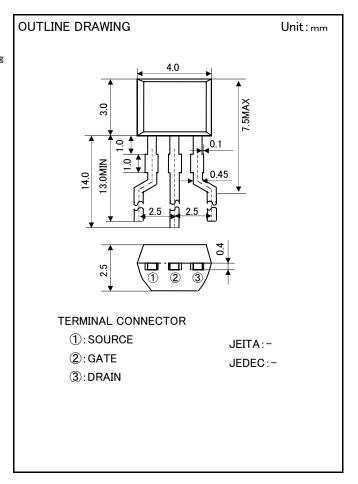
2SJ498 is a small type resin sealed P channel junction type FET. It is especially designed for low frequency voltage amplify, analog switch application.

## **FEATURE**

- High |yfs| | yfs | =4mS(typ)
- Low RDS(ON) RDS(ON)=220  $\Omega$  (typ)

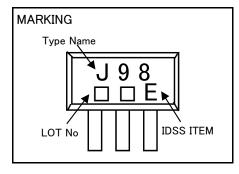
### **APPLYCATION**

General purpose voltage amplify, analog switch circuit for stereo, cassette deck, VTR.



# MAXIMUN RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V <sub>GDO</sub>	Gate to Drain voltage	50	٧
<b>I</b> G	Gate current	-10	mA
Рт	Total allowable dissipation	450	mW
Tch	Channel temperature	+150	°C
Tstg	Storage temperature	−55 <b>~</b> +150	°C



# ELECTRICAL CHARACTERISTICS (Ta=25°C)

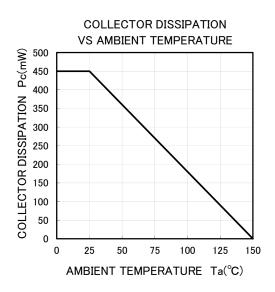
Symbol	Parameter	Test conditions		Limits		
	Parameter	Test conditions	Min	Тур	Max	Unit
V(BR)GDO	Gate to Drain breakdown voltage	I <sub>G</sub> =10 μ A, Is=0mA	50	-	-	٧
IGSS	Gate leakage current	Vgs=30V, Vps=0V	-	-	1	nA
IDSS *	Drain current	V <sub>DS</sub> =-10V, V <sub>GS</sub> =0V	-0.6	-4.0	-12	mA
Vgs(off)	Cut off voltage	V <sub>D</sub> S=-10V, I <sub>D</sub> =-10 μ A	0.2	1.5	6.0	V
yfs	Forward transfer admittance	V <sub>DS</sub> =-10V, V <sub>GS</sub> =0V, f=1kHz	1.5	4.0	-	mS
Ciss	Input capacitance	V <sub>DS</sub> =-10V, V <sub>GS</sub> =0V, f=1MHz	_	18	-	pF
RDS(ON)	Drain to Source resistor	Vps=10mVrms(1kHz), Vgs=0V, Ipss=5mA	-	220	_	Ω

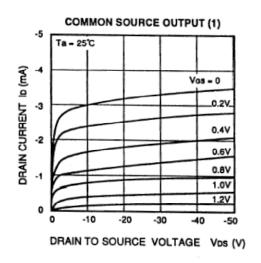
<sup>\*:</sup> It shows IDSS classification in right table.

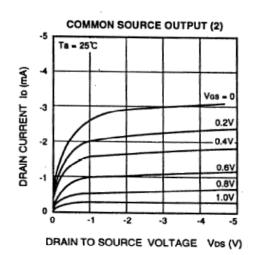
ITEM	В	С	D	Е
IDSS(mA)	0.6~1.5	1.0~3.0	2.5~6.0	5.0~12

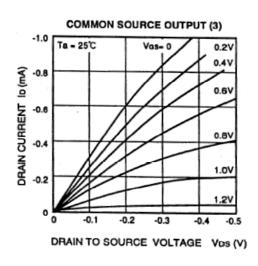
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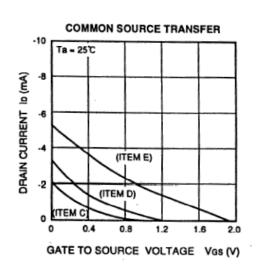
#### TYPICAL CHARACTERISTICS

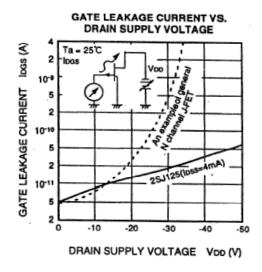






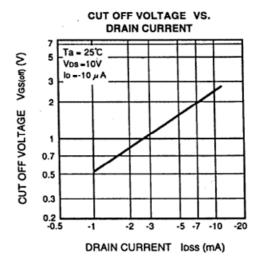


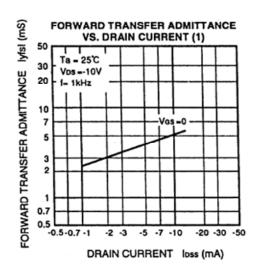


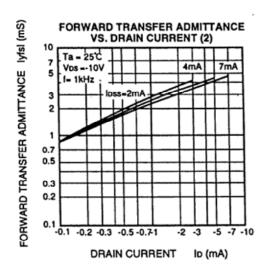


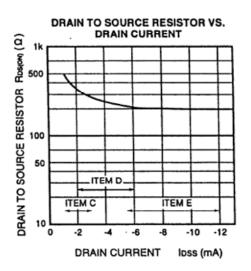
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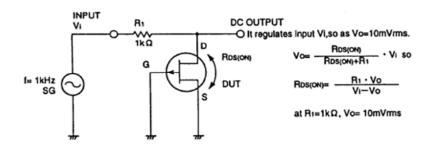








## DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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