# 2SK2880

FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE MICRO

### **DESCRIPTION**

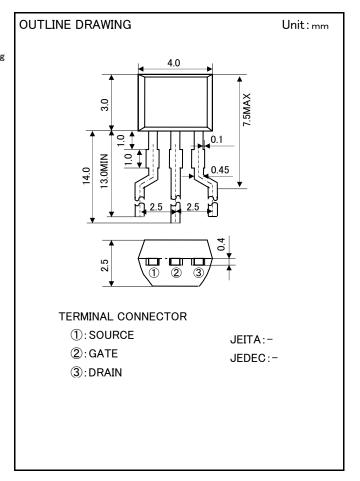
2SK2880 is a small type resin sealed N channel junction type FET. It is designed for low frequency voltage amplify, application and analog switch application.

## **FEATURE**

- $\bullet$  High |yfs| | yfs | =3mS(typ)
- •Low RDS(ON) RDS(ON)=250 $\Omega$  (typ)

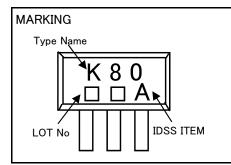
### **APPLYCATION**

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	
PT	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	Took oon liking		Limits		
Symbol		Test conditions	Min	Тур	Max	Unit
V(BR)GDO	Gate to Drain breakdown voltage	I <sub>G</sub> =-10 μ A, I <sub>S</sub> =0A	-50	-	-	٧
IGSS	Gate leakage current	Vgs=-30V, Vbs=0V	-	-	-1	nA
IDSS *	Drain current	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V	0.3	-	12	mA
Vgs(off)	Cut off voltage	V <sub>D</sub> S=10V, I <sub>D</sub> =10 μ A	-0.3	-1.5	-6.0	٧
yfs	Forward transfer admittance	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1kHz	1.0	3.0	-	mS
yos	Output admittance	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1kHz	-	10	-	μS
Ciss	Input capacitance	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1MHz	-	8	-	pF
Crss	Feedback capacitance	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1MHz		1.5	-	pF
RDS(ON)	Drain to Source resistor	VDS=10mVrms(1kHz), VGS=0V, IDSS=5mA	_	250	_	Ω

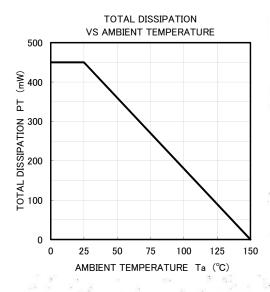
\* : It shows IDSS classification in right table.

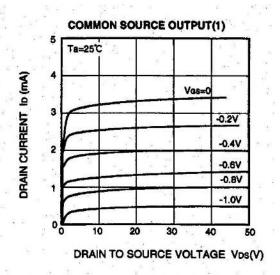
ITEM	Α	В	С	D	Е
IDSS(mA)	0.3~0.8	0.6~1.5	1.0~3.0	2.5~6.0	5.0~12

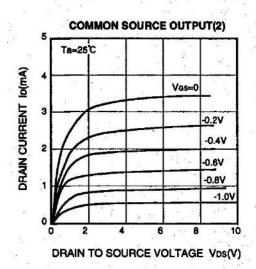
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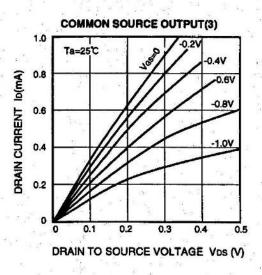
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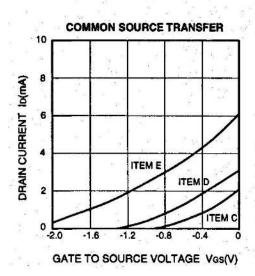
#### TYPICAL CHARACTERISTICS

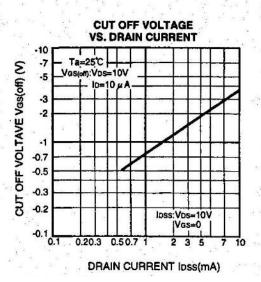






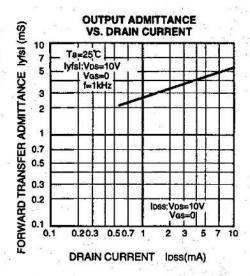


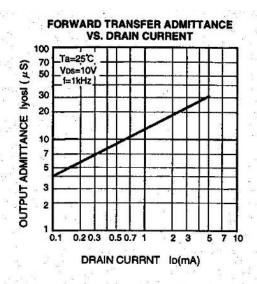


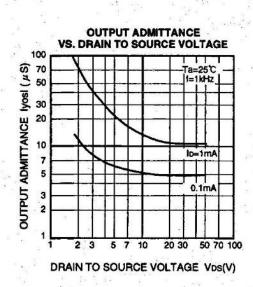


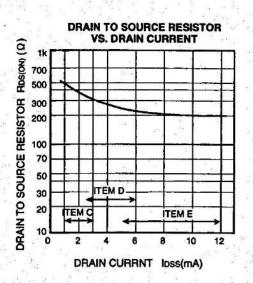
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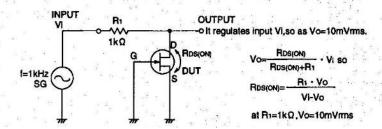








# DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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