<FIELD-EFFECT TRANSISTOR>

2SK2881

FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE MICRO

DESCRIPTION

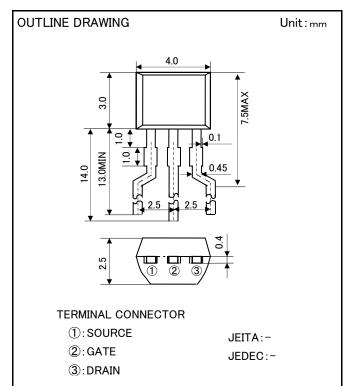
2SK2881 is a small type resin sealed N channel junction type FET. It is especially designed for low frequency low noise amplify application.

FEATURE

- Low noise figure NF=1dB(type)
 (VDS=10V,ID=1mA,RG=1kΩ,f=100Hz)
- ●High |yfs| | yfs | =8mS(typ) (VDS=10V,ID=1mA,f=1kHz)
- Low Rds(on) Rds(on)=70 Ω (typ)
- ●High voltage VGDO=VGSO=-50V

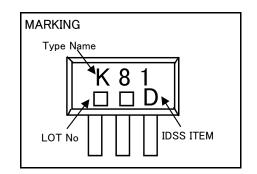
APPLYCATION

Low frequency voltage amplify, analog switch



MAXIMUN RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vgdo	Gate to Drain voltage	-50	V	
Vgso	Gate to Source voltage	-50	V	
ID	Drain current	20	mA	
IG	Gate current	10	mA	
Р⊤	Total allowable dissipation	450	mW	
Tch	Channel temperature	+150	°C	
Tstg	Storage temperature	-55~+150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

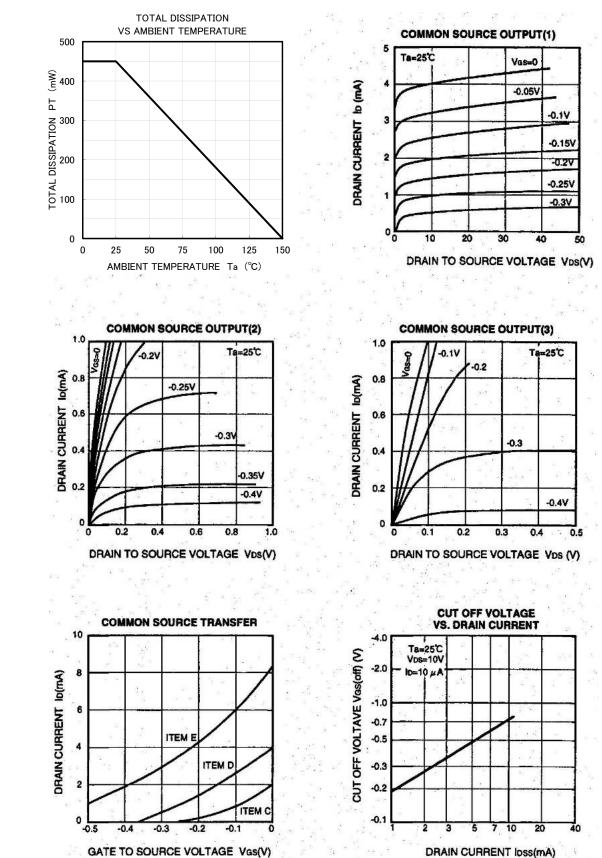
Symbol	Parameter	Testes	Test conditions		Limits			Unit
		Test co			Min	Тур	Max	Unit
IGSS	Gate leakage current	Vgs=-30V, Vds=0V			-	-	-1	nA
IDSS *	Drain current	VDS=10V, VGS=0V			1	4	12	mA
Vgs(off)	Cut off voltage	VDS=10V, ID=10 µ A			-0.1	-	-3.0	V
yfs	Forward transfer admittance	VDS=10V, VGS=0V, f=1kHz			6.0	15	-	mS
yfs	Forward transfer admittance	VDs=10V, I _D =1mA, f=1kHz			-	8	-	mS
yos	Output admittance VDS=10V, I _D =1mA, f=1kHz			-	10	-	μS	
Ciss	Input capacitance	VDS=10V, VGS=0V, f=1MHz			-	20	-	pF
NF	Noise figure	VDS=10V, ID=1mA, f=1kH	VDS=10V, I_D =1mA, f=1kHz, f=100Hz, Rg=1k Ω			1.0	2.5	dB
RDS(ON)	Drain to Source resistor	VDS=10mVrms(1kHz), VGS=0V, IDSS=5mA			-	70	-	Ω
: :It shows IDS	S classification in right table.		ITEM		2	D		E
			IDSS(mA)	1.0~	~3.0	2.5~6.0	5.0	~ 12

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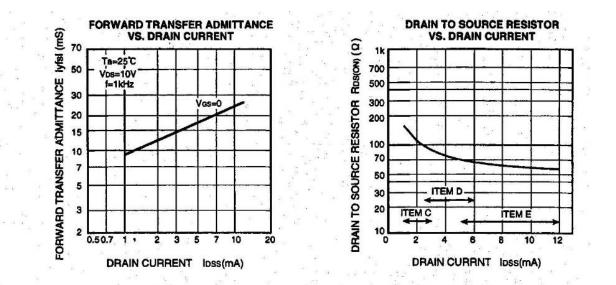
TYPICAL CHARACTERISTICS

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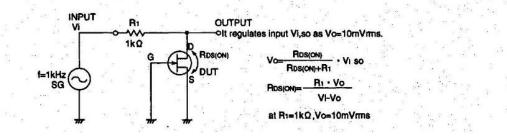
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DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT



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