2SK2881

For Low Frequency Amplify Application N Channel Junction type Micro(Frame type)

DESCRIPTION

2SK2880 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 (typ) (VDS=10V,ID=1mA,RG=1k Ω ,f=100Hz)
- High | yfs | | | yfs |=8mS(typ) (VDS=10V,ID=1 mA,f=1KHz)
- · Low RDS(ON)

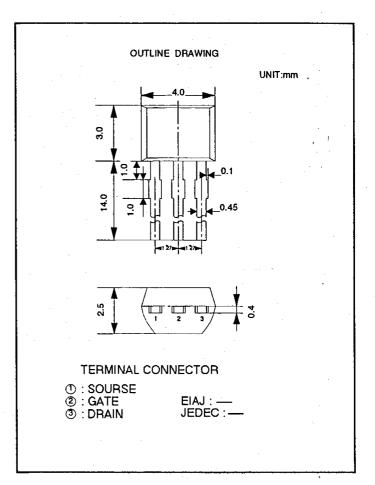
RDS(ON)= 70Ω (typ)

· High voltage

VgDo=Vgso=-50V

APPLICATION

Low frequency voltage amplify, analog switch.



MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT	
Vgdo	Gate to Drain voltage	-50	<	
Vgso	Gate to Source voltage	-50	V	
ΙD	Drain current	20	mA	
l G	Gate current	10	mA	
PT	Total allowable dissipation	450	mW	
Tch	Channel temperature	+125	Ç	
Tstg	Storage temperature	-55to+125	°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

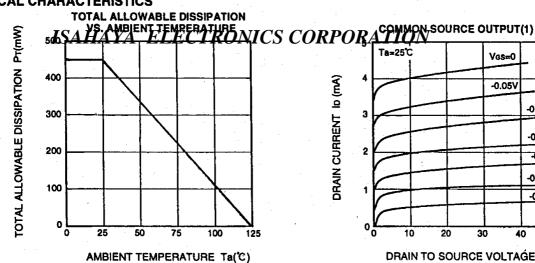
SYMBOL	PARAMETER	TECTOONDITIONS	LIMITS			
		TESTCONDITIONS	MIN	TYP	MAX	UNIT
lass	Gate leakage current	Vgs=-30V, VDs=0			1	nA
IDSS *	Drain current	Vps=10V, Vgs=0	1	4	12	mA
VGS(off)	Cut off voltage	VDS=10V, I D=10 μA	-0.1		-3.0	V
yfs	Forward transfer admittance	VDS=10V, VGS=0, f=1kHz	6.0	15		mS
yls	Forward transfer admittance	Vps=10V, I p=1mA, f=1kHz		8		mS
yos	Output admittance	VDS=10V, VGS=0, f=1kHz		10		μS
Ciss	Input capacitance	Vps=10V, Vgs=0, f=1MHz	7.	20		pF
NF	Noise figure	VDs=10V, I D=1mA, f=100Hz,Rg=1KΩ	· · · · · ·	1.0	2.5	dB
RDS(ON)	Drain to Sourse resistor	VDS=10mVrms(1kHz), VGS=0, I DSS=5mA		70		Ω

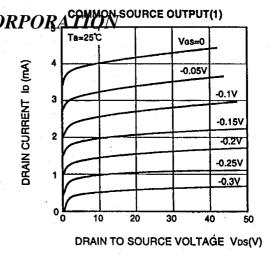
ITEM	С	D	E
I DSS	1.0~3.0	2.5~6.0	5.0~12

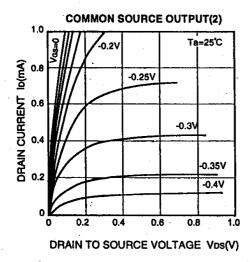
(Field-Effect Transistor)

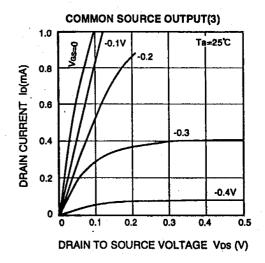
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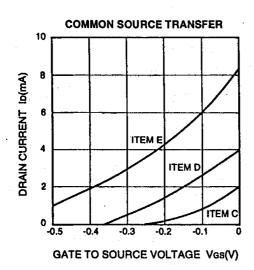
TYPICAL CHARACTERISTICS

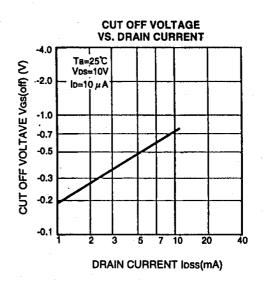






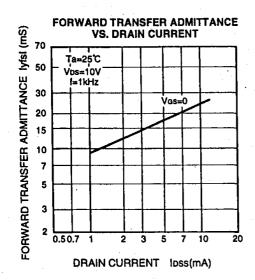


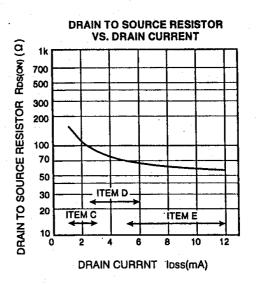




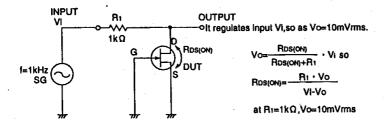
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DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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