(FIELD-EFFECT TRANSISTOR)

2SK930

FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

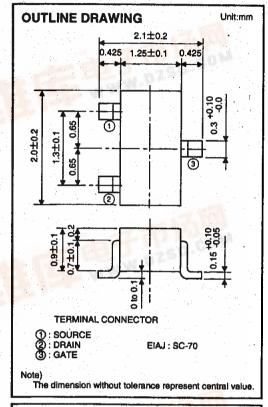
2SK930 is a super mini outline resin sealed silicon N channel junction type FET. It is designed for low frequency voltage amplify, application, analog switch application.

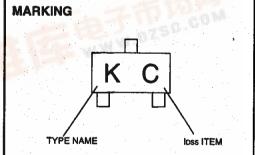
FEATURE

- Small type for mounting
- ●High | yfs | | yfs | =4mS(typ)
- ●Low RDS(ON) RDS(ON)=250 Ω typ

APPLICATION

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





MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vgpo	Gate to Drain voltage	-50	V
la	Gate current	10	mA
PT	Total allowable dissipation(Ta=25°C)	150	mW
Tch	Channel temperature	+125	°C
Tstg	Storage temperature	-55 to +125	τ

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
				Тур	Max	Unit
V(BR)GDO	G to D break down voltage	IG=-10 μ A,Is=0	-50			V
lgss	Gate leakage current	Vgs=-30V,Vps=0	1		-1	nA
loss *	Drain current	Vps=10V,Vgs=0	1.0		12	mA
VGS(off)	Cut off voltage	VDS=10V,ID=10 μ A	-0.3	-1.5	-6.0	V
yfs	Forward transfer admittance	Vps=10V,Vgs=0,f=1kHz	1.0	3.0		mS
l yos l	Output admittance	Vps=10V,Vgs=0,f=1kHz	 	10		μS
Ciss	Input capacitance	Vps=10V,Vgs=0,f=1MHz		8		ρF
Cres	Feed back capacitance	VDS=10V,VGS=0,f=1MHz	İ	1.5		pF
RDS(ON)	Drain to source resistor	Vps=10mVrms(1kHz),Vgs=0,lpss=5mA		250		0

*: It shows loss classification in right table.

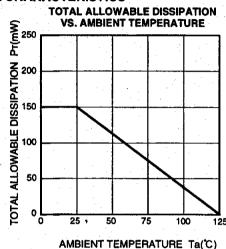
Item	C	D	E
IDSS	1.0 to 3.0	2.5 to 6.0	5.0 to 12

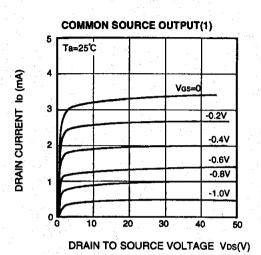
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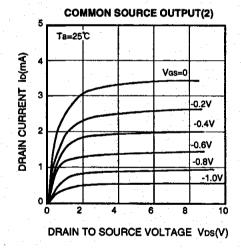
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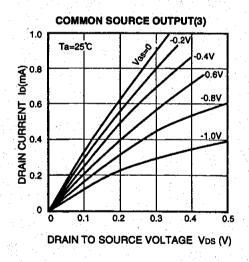
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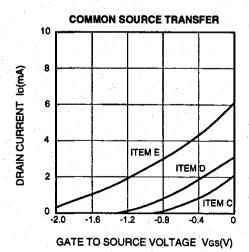
TYPICAL CHARACTERISTICS

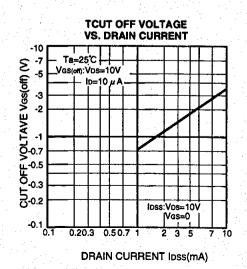








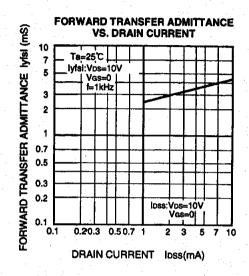


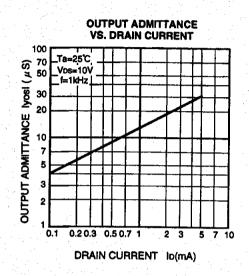


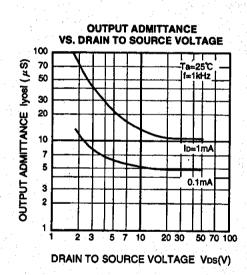
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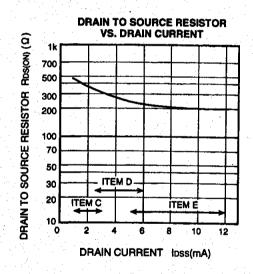
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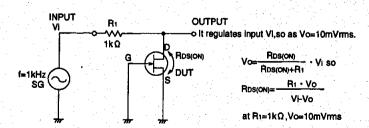








DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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