# FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

### **DESCRIPTION**

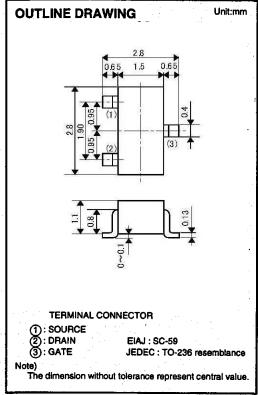
2SK492 is a super mini outline resin sealed silicon N channel junction type FET. It is designed for low frequency voltage amplify,application and analog switch application.

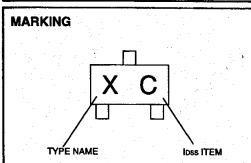
## **FEATURE**

- Small type for mounting
- ●High | yfs | | yfs | =8mS(typ)
- ●Low Ros(on) Ros(on)=70 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	
lg	Gate current	10	mA
Рт	Total allowable dissipation(Ta=25°C)	150	mW
Tah	Channel temperature	+125	τ
Tstg	Storage temperature	-55 to +125	r

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		Unit
	1 diameter	rest conditions		Тур	Max	
less	Gate leakage current	VGS=-30V,VDS=0			-1	nA
loss*	Drain current	VDS=10V,VGS=0	1	4	12	mA
VGS(off)	Cut off voltage	VDS=10V,ID=10 μ A	-0.1		-2.0	V
l yfs l	Forward transfer admittance	Vps=10V,Vgs=0,f=1kHz	6.0	15		mS
l yfs l	Forward transfer admittance	Vos=10V,lo=1mA,f=1kHz		8		mS
l yos l	Output admittance	Vps=10V,lp=1mA,f=1kHz		10		μS
Ciss	Input capacitance	VDS=10V,VGS=0,f=1MHz		20		pF
NF	Noise figure	Vos=10V,lo=1mA,f=100Hz,Rg=1kΩ		1.0		dB
Ros(on)	Drain to source resistor	Vps=10mVrms(1kHz),Vgs=0,lpss=5mA		70		Ω

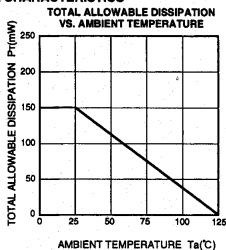
<sup>\* :</sup> It shows loss classification in right table.

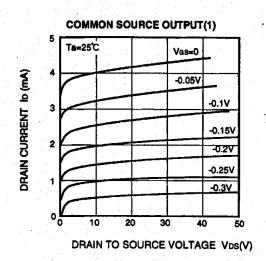
Item	С	D	E
IDSS	1.0 to 3.0	2.5 to 6.0	5.0 to 12

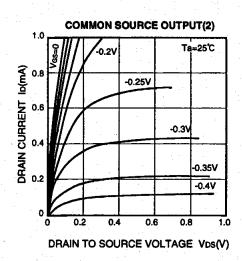
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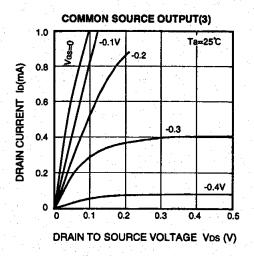
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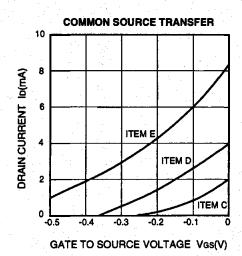
### TYPICAL CHARACTERISTICS

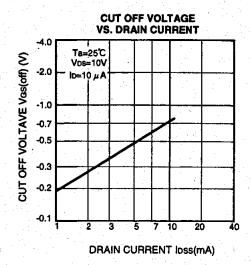




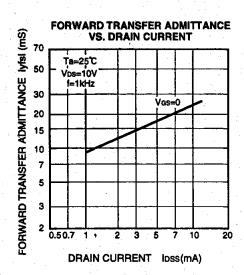


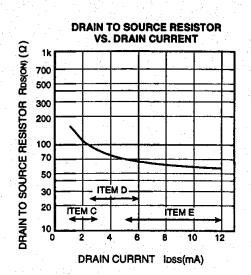




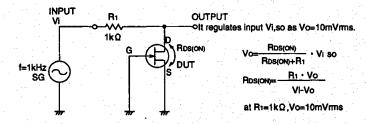


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## DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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