FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

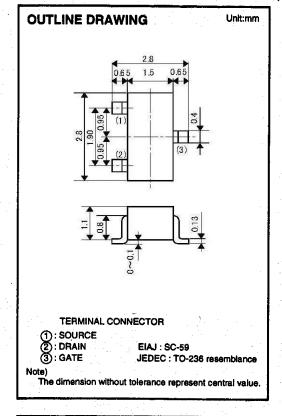
2SK433 is a super mini outline resin sealed silicon N channel junction type FET. It is designed for low frequency voltage amplify,application, analog switch application.

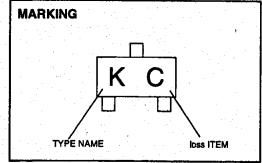
FEATURE

- Small type for mounting
- ●High | yfs | | yfs | =4mS(typ)
- ●Low Ros(on) Ros(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	
VGDO	Gate to Drain voltage	-50	V	
lg	Gate current	10	mA	
Рт	Total allowable dissipation(Ta≈25℃)	150	mW	
Tch	Channel temperature	+125	rc	
Tatg	Storage temperature	-55 to +125	°C	

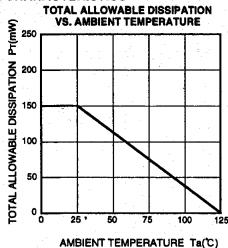
ELECTRICAL CHARACTERISTICS (Ta=25°C)

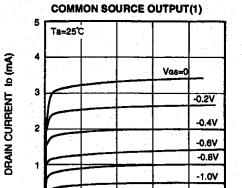
Symbol	Parameter	Test conditions		Limits			1 1-4
				Min	Тур	Max	Unit
V(BR)GDO	G to D break down voltage	IG=-10 μ A,IS=0		-50			V
lgss	Gate leakage current	Vgs=-30V,Vps=0				-1	nΑ
IDSS*	Drain current	Vps=10V,Vgs=0		0.6		12	mA
VGS(off)	Cut off voltage	VDS=10V,ID=10 μA		-0.3	-1.5	-6.0	V
yfs	Forward transfer admittance	VDS=10V,VGS=0,f=1kHz		1.0	3.0		mS
l yos i	Output admittance	VDS=10V,VGS=0,f=1kHz			10		μS
Ciss	Input capacitance	VDS=10V,VGS=0,f=1MHz			8		ρF
Crss	Feed back capacitance	VDS=10V,VGS=0,f=1MHz			1.5		pF
RDS(ON)	Drain to source resistor	Vos=10mVrms(1kHz),Vgs=0,loss=5mA			250		Ω

Item	В	С	D	E
IDSS	0.6 to 1.5	1,0 to 3.0	2.5 to 6.0	5.0 to 12

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TYPICAL CHARACTERISTICS

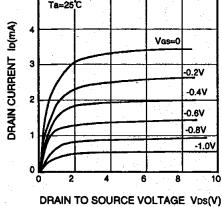


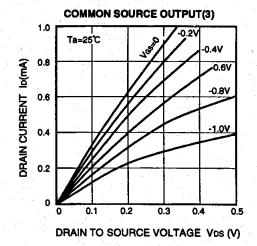


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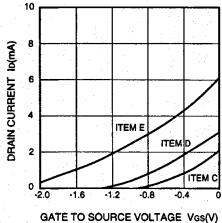
30 DRAIN TO SOURCE VOLTAGE VDS(V)

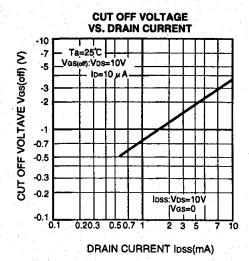
COMMON SOURCE OUTPUT(2) Ta=25°C



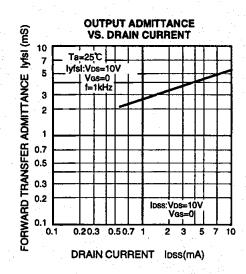


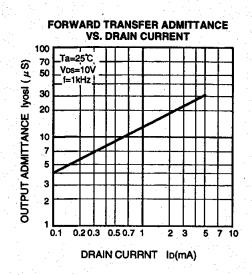
COMMON SOURCE TRANSFER

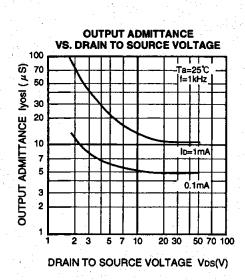


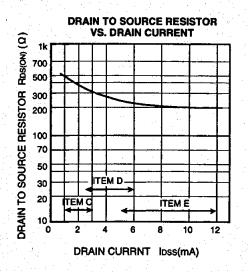


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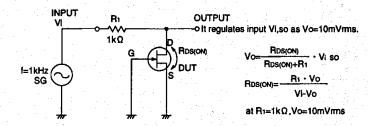








DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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