2SK433

FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

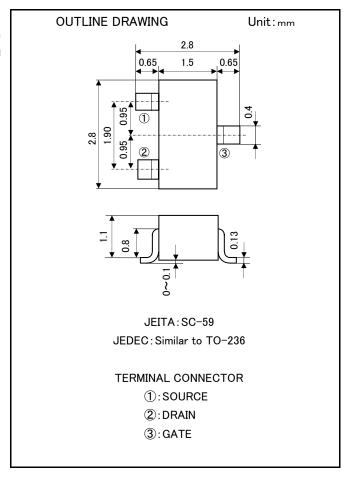
2SK433 is a super mini outline resin sealed N channel junction type FET. It is designed for low frequency voltage amplify, application and analog switch application.

FEATURE

- Small type for mounting.
- ●High |yfs| | yfs | =3mS(typ)
- •Low RDs(ON) RDs(ON)=250 Ω (typ)

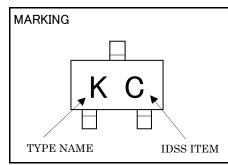
APPLYCATION

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



MAXIMUN RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{GDO}	Gate to Drain voltage -50		٧
I G	Gate current 10		mA
Рт	Total allowable dissipation	150	mW
Tch	Channel temperature	+150	°C
Tstg	Storage temperature	−55 ~ +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
		lest conditions	Min	Тур	Max	Unit
V(BR)GDO	Gate to Drain breakdown voltage	I_G =-10 μ A, I_S =0A	-50	-	-	٧
IGSS	Gate leakage current	Vgs=-30V, Vbs=0V	-	-	-1	nA
IDSS *	Drain current	V _{DS} =10V, V _{GS} =0V	0.6	-	12	mA
Vgs(off)	Cut off voltage	V _D S=10V, I _D =10 μ A	-0.3	-1.5	-6.0	٧
yfs	Forward transfer admittance	V _{DS} =10V, V _{GS} =0V, f=1kHz	1.0	3.0	-	mS
yos	Output admittance	V _{DS} =10V, V _{GS} =0V, f=1kHz	-	10	-	mS
Ciss	Input capacitance	V _{DS} =10V, V _{GS} =0V, f=1MHz	-	8	-	pF
Crss	Feedback capacitance	V _{DS} =10V, V _{GS} =0V, f=1MHz	-	1.5	-	pF
RDS(ON)	Drain to Source resistor	VDS=10mVrms(1kHz), VGS=0V, IDSS=5mA	-	250	-	Ω

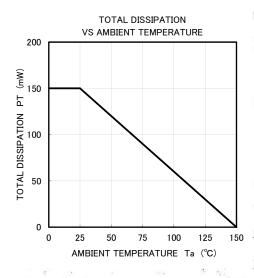
^{* :} It shows IDSS classification in right table.

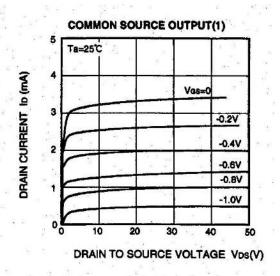
ITEM	В	С	D	E
IDSS(mA)	0.6~1.5	1.0~3.0	2.5~6.0	5.0~12

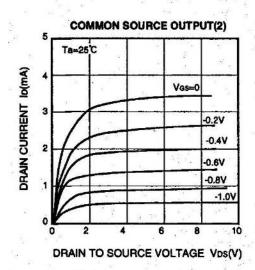
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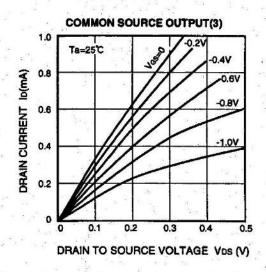
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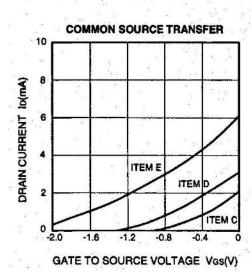
TYPICAL CHARACTERISTICS

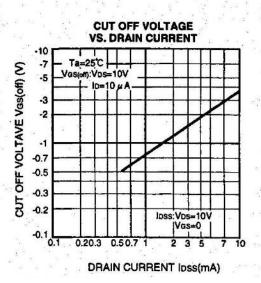






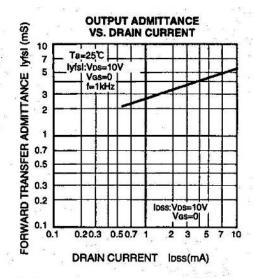


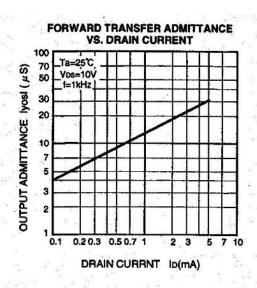


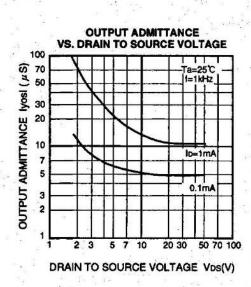


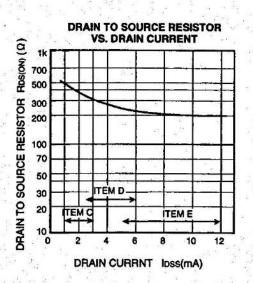
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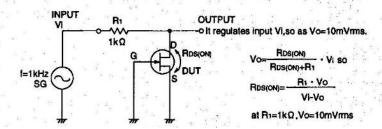








DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





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