<FIELD-EFFECT TRANSISTOR>

2SK492

FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

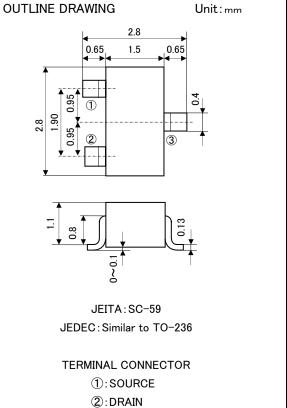
2SK492 is a super mini outline resin sealed N channel junction type FET. It is designed for low frequency voltage amplify, application and analog switch application.

FEATURE

- Small type for mounting.
- ●High |yfs| | yfs | =8mS(typ)
- Low Rds(on) Rds(on)=70 Ω (typ)

APPLYCATION

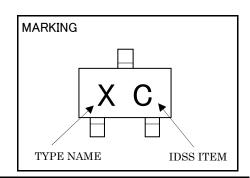
General purpose voltage amplify, analog switch circuit for stereo, cassette deck, VTR.



3:GATE

MAXIMUN RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vgdo	Gate to Drain voltage	-50	V	
IG	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)

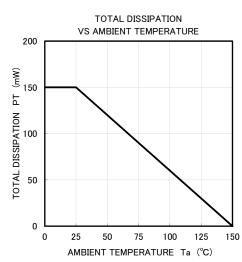
Symbol	Parameter	Test conditions		Limits			11	
					Min	Тур	Max	Unit
IGSS	Gate leakage current	Vgs=-30V, Vds=0V		-	-	-1	nA	
IDSS *	Drain current	VDS=10V, VGS=0V		1	4	12	mA	
Vgs(off)	Cut off voltage	Vds=10V, I _d =10 µ A		-0.1	-	-2.0	V	
yfs	Forward transfer admittance	VDS=10V, VGS=0V, f=1kHz		6	15	-	mS	
yfs	Forward transfer admittance	e VDS=10V, ID=1mA, f=1kHz		-	8	-	mS	
yos	Output admittance	VDS=10V, ID=1mA, f=1kHz	√Ds=10V, ID=1mA, f=1kHz			10	-	μS
Ciss	Input capacitance	VDS=10V, VGS=0V, f=1MHz		-	20	-	pF	
NF	Noise figure	VDs=10V,ID=1mA,f=100MHz,RG=1kΩ		-	1.0	-	dB	
RDS(ON)	Drain to Source resistor	VDS=10mVrms(1kHz),VGS=0V, IDSS=5mA		-	70	-	Ω	
: It shows IDS	S classification in right table.	÷	ITEM		С	D		E
			IDSS(mA)	1.0~3.0		2.5~6	.0 5	0~12

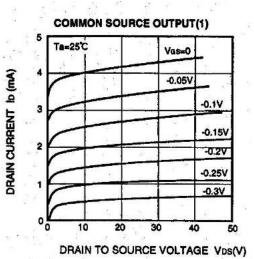
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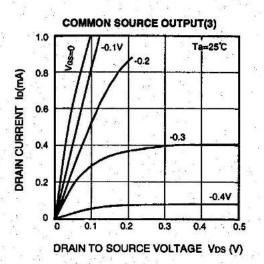
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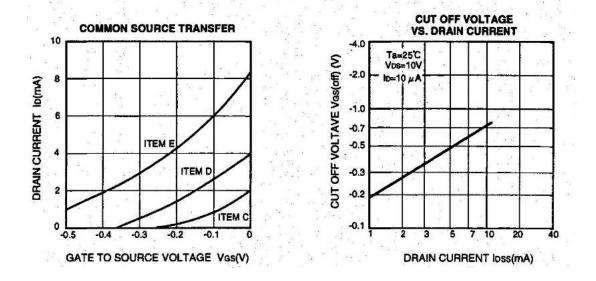
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COMMON SOURCE OUTPUT(2) 1.0 Ta=25°C 0 21 DRAIN CURRENT ID(mA) 0.8 -0.25V 0.6 -0.3 0.4 0.35V 0.2 -0.4V 0 0 0.2 0.4 0.6 0.8 1.0 DRAIN TO SOURCE VOLTAGE VDs(V)



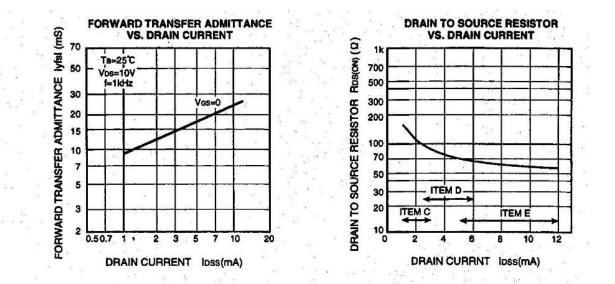


TYPICAL CHARACTERISTICS

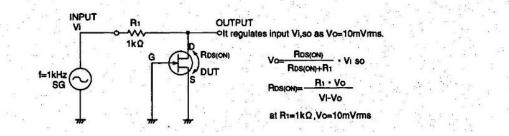
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DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT



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