FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

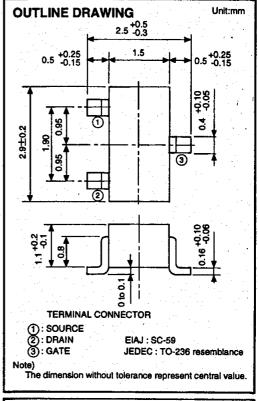
2SK492 is a super mini outline resin sealed silicon N channel junction type FET. It is designed for low frequency voltage amplify,application and analog switch application.

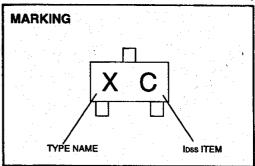
FEATURE

- Small type for mounting
- ●High | yfs | | yfs | =8mS(typ)
- OLOW RDS(ON) RDS(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	٧
lg	Gate current	10	mA
Рт	Total allowable dissipation(Ta=25°C)	150	mW
Tch	Channel temperature	+125	r
Tatg	Storage temperature	-55 to +125	r

ELECTRICAL CHARACTERISTICS (Ta=25°C)

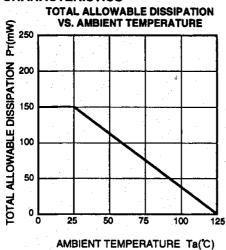
Symbol	Parameter	Test conditions	Limits		Unit		
Cymbol		l est conditions		Min	Typ Max	Max	Unit
lgss	Gate leakage current	Vgs=-30V,Vps=0		T		-1	nA
loss*	Drain current	VDS=10V,VGS=0		1	4	12	mA
VGS(off)	Cut off voltage	VDS=10V,ID=10 μA		-0.1		-2.0	V
yfs	Forward transfer admittance	Vps=10V,Vgs=0,f=1kHz		6.0	15		mS
yfs	Forward transfer admittance	Vps=10V,lp=1mA,f=1kHz			8		mS
l yos l	Output admittance	Vps=10V,lp=1mA,f=1kHz			10		μS
Ciss	Input capacitance	Vps=10V,Vgs=0,f=1MHz			20		ρF
NF	Noise figure	VDS=10V,ID=1mA,f=100Hz,RG=1kΩ		1	1.0		dB
RDS(ON)	Drain to source resistor	Vps=10mVrms(1kHz),Vgs=0,lpss=5mA		<u> </u>	70		Ω

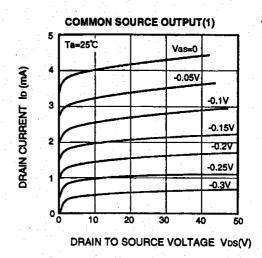
^{* :} It shows loss classification in right table.

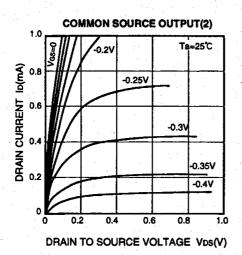
Item	С	D	E
IDSS	1.0 to 3.0	2.5 to 6.0	5.0 to 12

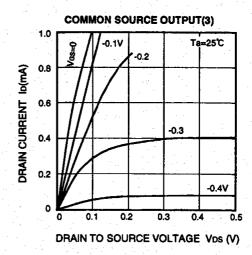
FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE

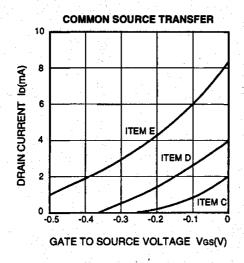
TYPICAL CHARACTERISTICS

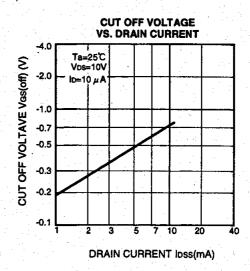




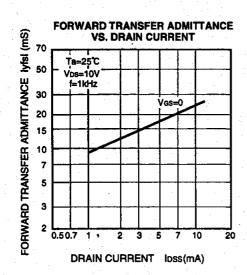


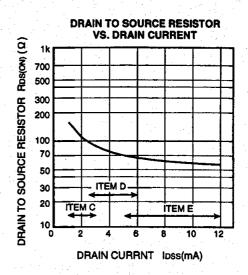




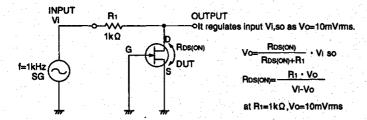


FOR LOW FREQUENCY AMPLIFY APPLICATION N CHANNEL JUNCTION TYPE





DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT





http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

Keep safety in your circuit designs!

Isahaya Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

•These materials are intended as reference to assist out customers in the selection of the Isahaya semiconductor product best suited to the customer's application, they do not convey any license under any intellectual property rights, or any other rights, belonging to Isahaya Electronics Corporation or a third party.

Isahaya Electronics Corporation assumes no responsibility for any damage, or infringement of any third-party rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in the materials.

All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by Isahaya Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact Isahaya Electronics Corporation or authorized Isahaya Semiconductor product distributor for the latest product information before purchasing a product listed herein.

The prior written approval of Isahaya Electronics Corporation is necessary to reprint or reproduce in whole or in part these materials.

If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.

Please contact Isahaya Electronics Corporation or an authorized Isahaya Semiconductor product distributor for further details on these materials or the products contained therein.