FIELD-EFFECT TRANSISTOR

2SK3536

ELECTRET CONDENSER MICROPHONE APPLICATION N CHANNEL JUNCTION TYPE

DESCRIPTION

2SK3536 is a super mini package resin sealed silicon N channel junction type FET.

Since excellent transient characteristics ,high | Y fs | and a super-thin flat lead type package, it is the optimum as an electret condenser microphone use.

FEATURE

- · Super-thin flat lead type package. t=0.45mm
- · High | Yfs |
- · Excellent transient characteristics

APPLICATION

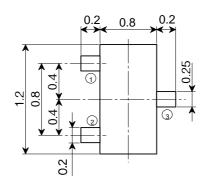
Electret condenser microphone application

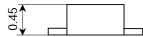
MAXIMUM RATINGS(Ta=25)

Symbol	Parameter	Ratings	Unit	
VDSX	Drain to Source Voltage	20	V	
Vgdo	Gate to Drain Voltage	-20	V	
ΙD	Drain Current	10	mA	
IG	Gate Current	10	mA	
Рт	Total allowable dissipation(Ta=25)		mW	
Tch	Channel temperature	+125		
Tstg	Storage temperature	-55 ~ +125		

OUTLINE DRAWING

Unit:mm





TERMINAL CONNECTOR

①: DRAIN

②: SOURCE ③: GATE

JEITA:

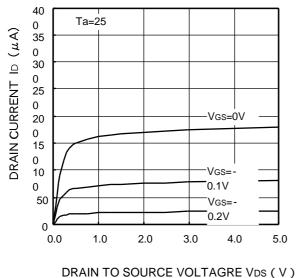
ELECTRICAL CHARACTERISTICS(Ta=25)

Symbol	Parameter	Test conditions		Limits		
			Min	Тур	Max	Unit
I DSS	Drain current	VDS=5V, VGS=0V	40		600	μΑ
VGS(OFF)	Cut off voltage	VDS=5V, ID=1.0 μ A	-0.1		-1.0	V
Yfs	Forward transfer admittanceVDs=5V, VGs=0V, f=1KHz		350			μS
Ciss	Input capacitance	VDS=5V, VGS=0V, f=1MHz		7.0		pF
NV	Noise voltage			1.8	3.0	μV

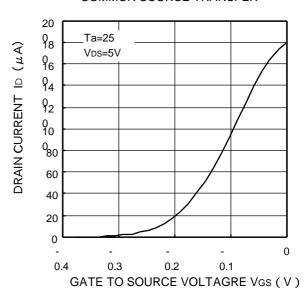
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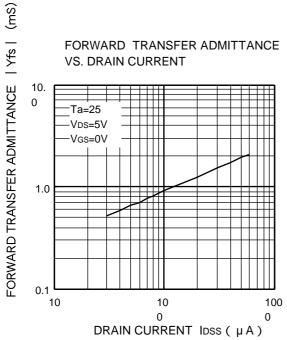
COMMON SOURCE OUTPUT

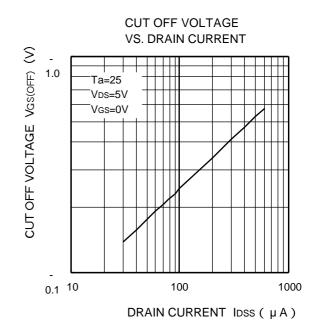


COMMON SOURCE TRANSFER











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