〈Field-Effect Transistor〉

2SK2880

For Low Frequency Amplify Application

N Channel Junction type Micro(Frame type)

DESCRIPTION

SK2880 is a small type resin sealed N channel junction type FET. It is especially designed for low frequency voltage amplify,analog switch application.

FEATURE

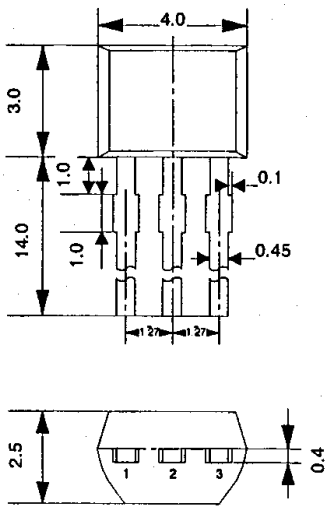
- Small type for mounting
- High |yfs| |yfs|=3mS(typ)
- Low $R_{DS(ON)}$ $R_{DS(ON)}$=250Ω (typ)

APPLICATION

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

OUTLINE DRAWING

UNIT:mm



TERMINAL CONNECTOR

① : SOURSE
② : GATE
③ : DRAIN

EIAJ : —
JEDEC : —

MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
V_{GDO}	Gate to Drain voltage	-50	V
I_G	Gate current	10	mA
P_T	Total allowable dissipation	450	mW
T_{ch}	Channel temperature	+125	°C
T_{stg}	Storage temperature	-55to+125	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)GDO}$	G to D break down voltage	I_G=-10μA, I_S=0	-50			V
I_{GSS}	Gate leakage current	V_{GS}=-30V, V_{DS}=0			-1	nA
I_{DSS} *	Drain current	V_{DS}=10V, V_{GS}=0	0.3		12	mA
$V_{GS(off)}$	Cut off voltage	V_{DS}=10V, I_D=10μA	-0.3	-1.5	-6.0	V
|yfs|	Forward transfer admittance	V_{DS}=10V, V_{GS}=0, f=1kHz	1.0	3.0		mS
|yos|	Output admittance	V_{DS}=10V, V_{GS}=0, f=1kHz		10		μS
Ciss	Input capacitance	V_{DS}=10V, V_{GS}=0, f=1MHz		8		pF
Crss	Feed back capacitance	V_{DS}=10V, V_{GS}=0, f=1MHz		1.5		pF
$R_{DS(ON)}$	Drain to Sourse resistor	V_{DS}=10mVrms(1kHz), V_{GS}=0, I_{DSS}=5mA		250		Ω

ITEM	A	B	C	D	E
I_{DSS}	0.3~0.8	0.6~1.5	1.0~3.0	2.5~6.0	5.0~12

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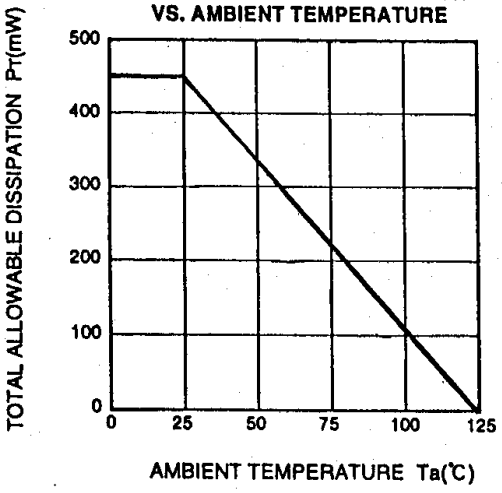
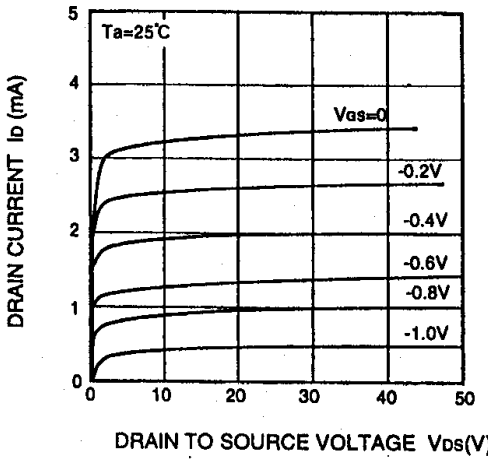
TYPICAL CHARACTERISTICS

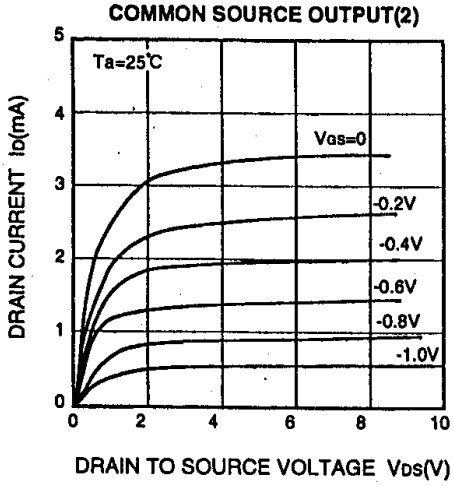
TOTAL ALLOWABLE DISSIPATION VS. AMBIENT TEMPERATURE



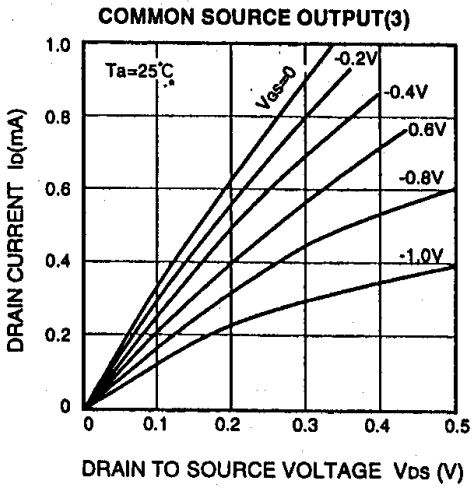
COMMON SOURCE OUTPUT(1)



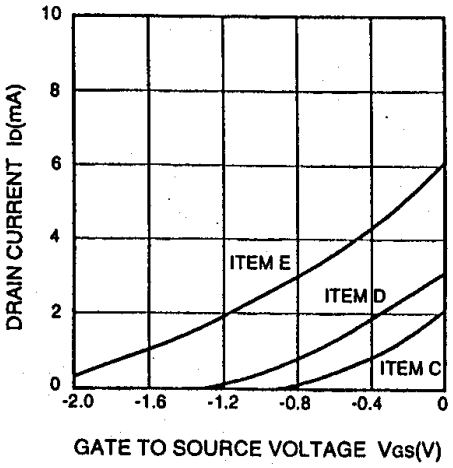
COMMON SOURCE OUTPUT(2)



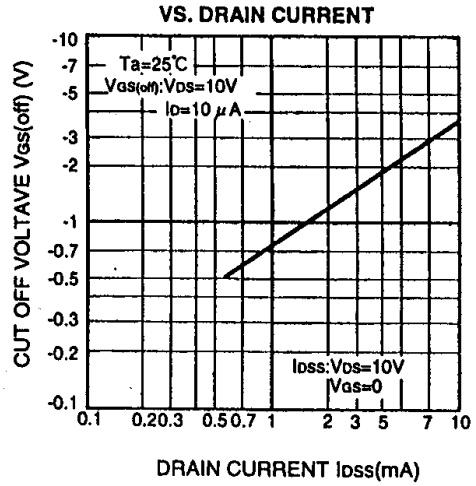
COMMON SOURCE OUTPUT(3)



COMMON SOURCE TRANSFER



CUT OFF VOLTAGE VS. DRAIN CURRENT



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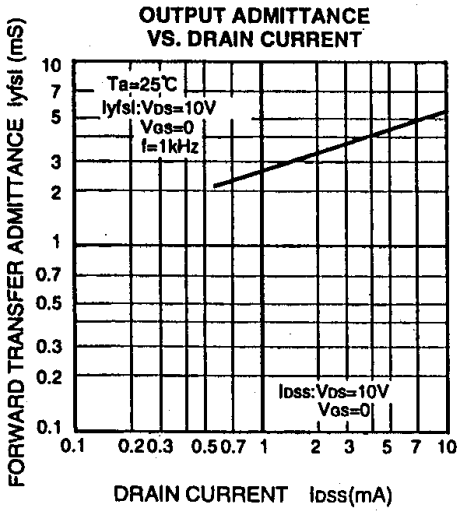
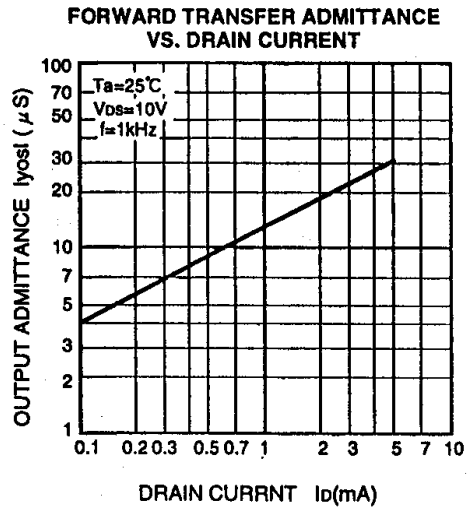
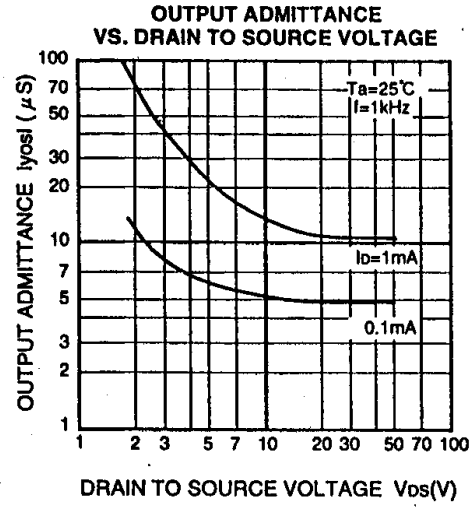
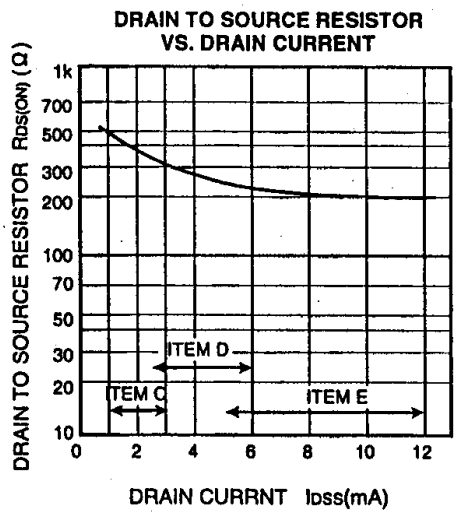
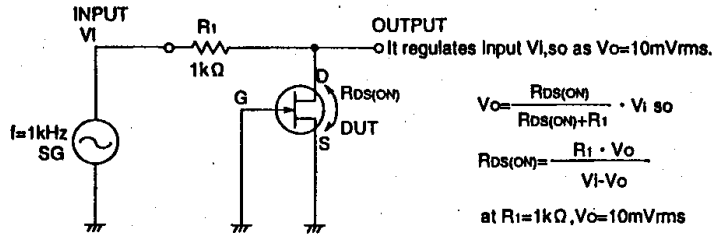








DRAIN TO SOURCE RESISTOR RDS(ON) TEST CIRCUIT



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