

2SK2880

FOR LOW FREQUENCY AMPLIFY APPLICATION
N CHANNEL JUNCTION TYPE MICRO

DESCRIPTION

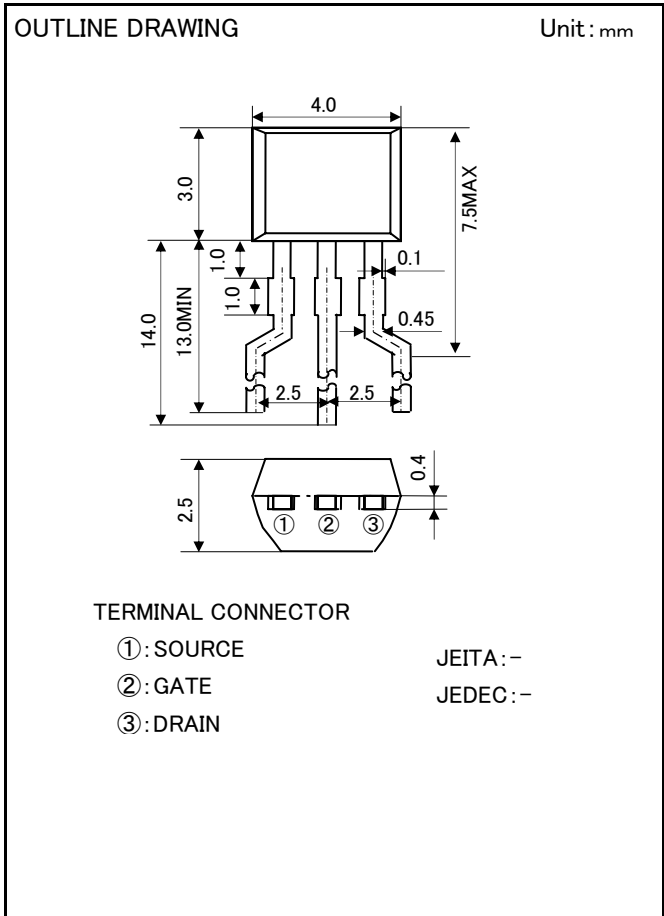
2SK2880 is a small type resin sealed N channel junction type FET.
It is designed for low frequency voltage amplify, application and analog switch application.

FEATURE

- High $|y_{fs}|$ $|y_{fs}| = 3\text{mS}(\text{typ})$
- Low $R_{DS(ON)}$ $R_{DS(ON)} = 250\Omega(\text{typ})$

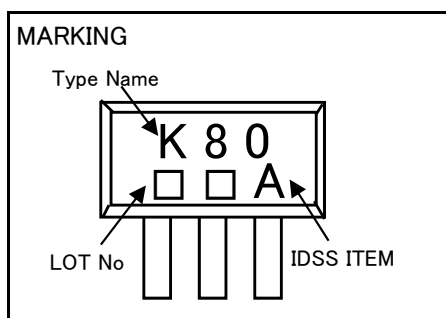
APPLYCATION

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



MAXIMUN RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V_{GD0}	Gate to Drain voltage	-50	V
I_G	Gate current	10	mA
PT	Total allowable dissipation	450	mW
T_{ch}	Channel temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C



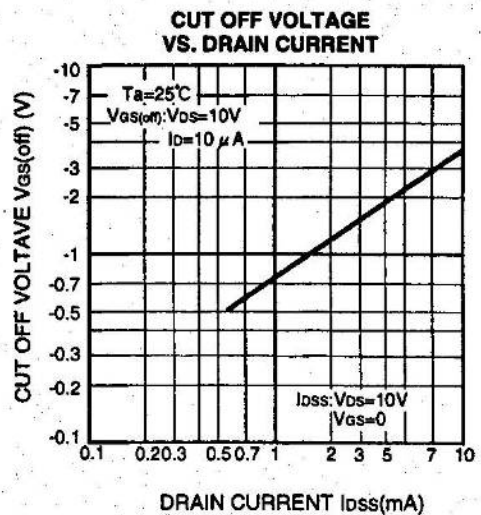
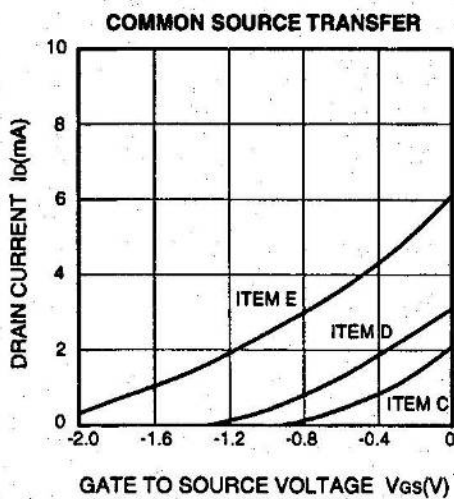
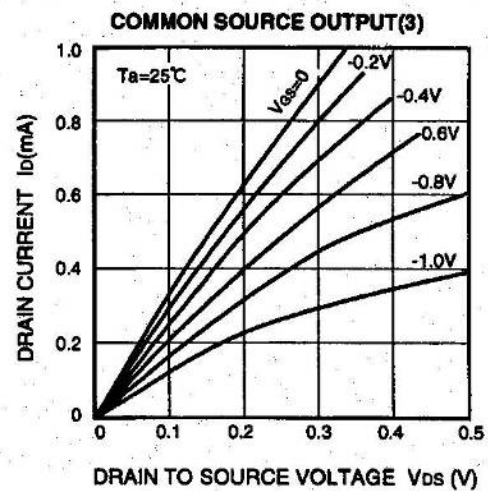
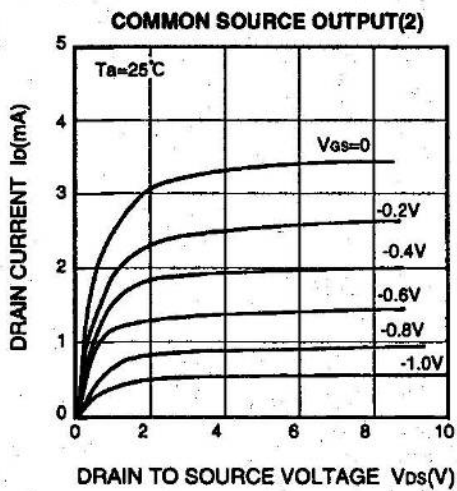
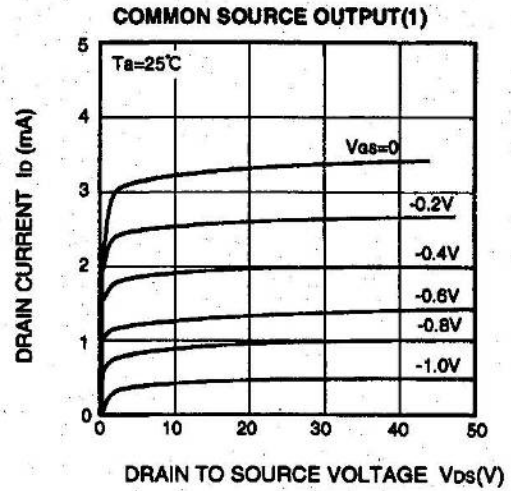
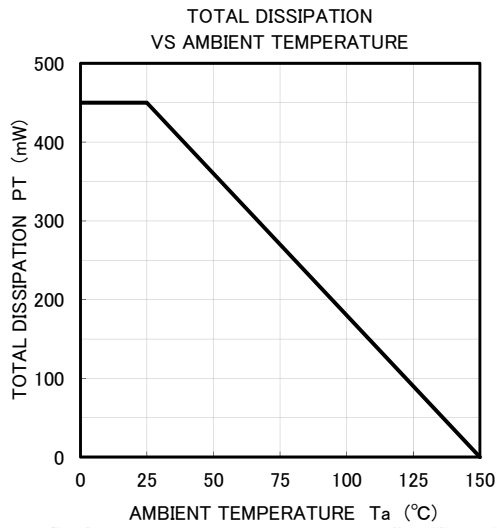
ELECTRICAL CHARACTERISTICS (Ta=25°C)

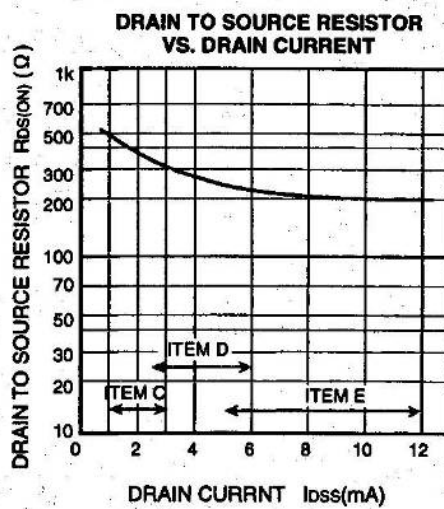
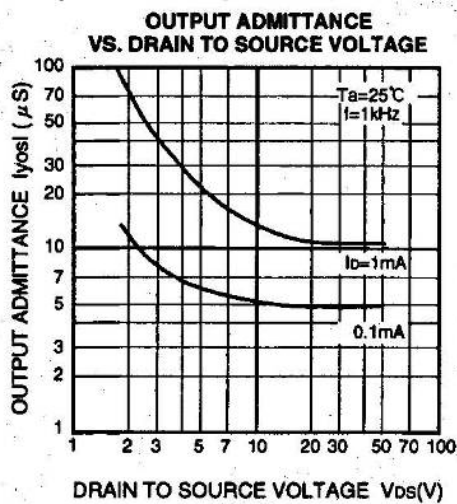
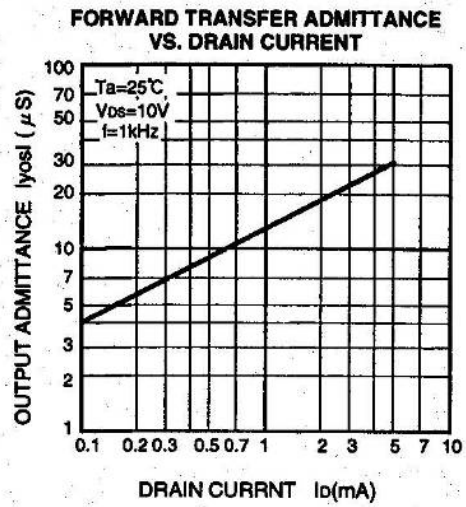
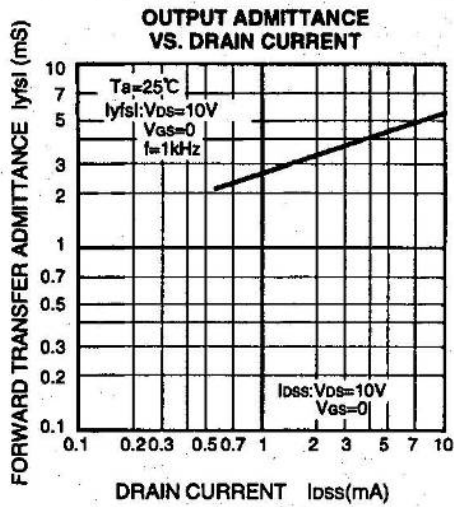
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)GD0}$	Gate to Drain breakdown voltage	$I_G = -10\mu A, I_D = 0A$	-50	-	-	V
I_{GSS}	Gate leakage current	$V_{GS} = -30V, V_{DS} = 0V$	-	-	-1	nA
$I_{DSS} *$	Drain current	$V_{DS} = 10V, V_{GS} = 0V$	0.3	-	12	mA
$V_{GS(OFF)}$	Cut off voltage	$V_{DS} = 10V, I_D = 10\mu A$	-0.3	-1.5	-6.0	V
$ y_{fs} $	Forward transfer admittance	$V_{DS} = 10V, V_{GS} = 0V, f = 1kHz$	1.0	3.0	-	mS
$ y_{os} $	Output admittance	$V_{DS} = 10V, V_{GS} = 0V, f = 1kHz$	-	10	-	μS
C_{iss}	Input capacitance	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$	-	8	-	pF
C_{rss}	Feedback capacitance	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$	-	1.5	-	pF
$R_{DS(ON)}$	Drain to Source resistor	$V_{DS} = 10\text{mVrms}(1kHz), V_{GS} = 0V, I_{DSS} = 5\text{mA}$	-	250	-	Ω

* :It shows I_{DSS} classification in right table.

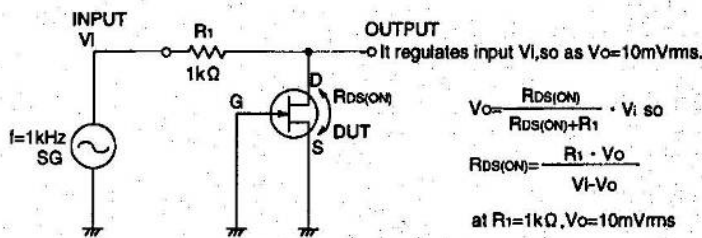
ITEM	A	B	C	D	E
$I_{DSS}(\text{mA})$	0.3~0.8	0.6~1.5	1.0~3.0	2.5~6.0	5.0~12

TYPICAL CHARACTERISTICS





DRAIN TO SOURCE RESISTOR $R_{DS(ON)}$ TEST CIRCUIT





Keep safety first in your circuit designs!

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