

2SK1479

Silicon N Channel Junction FET
Low Frequency Impedance Converter

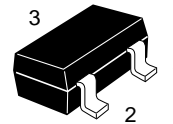
Features

- Small input capacitance. ($C_{iss} = 3.2 \text{ pF typ.}$)
- High $|y_{fs}|$, small power loss. ($|y_{fs}| 3.5 \text{ mS typ.}$)
- Suitable for electric condenser Mic impedance converter.

Table 1 Absolute Maximum Ratings
 ($T_a = 25^\circ\text{C}$)

Item	Symbol	Rating	Unit
Gate to drain voltage	V_{GDO}	-25	V
Gate to source voltage	V_{GSO}	-25	V
Drain current	I_D	5	mA
Gate current	I_G	5	mA
Channel power dissipation	P_{ch}	100	mW
Channel temperature	T_{ch}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

MPAK



1. Drain
2. Source
3. Gate

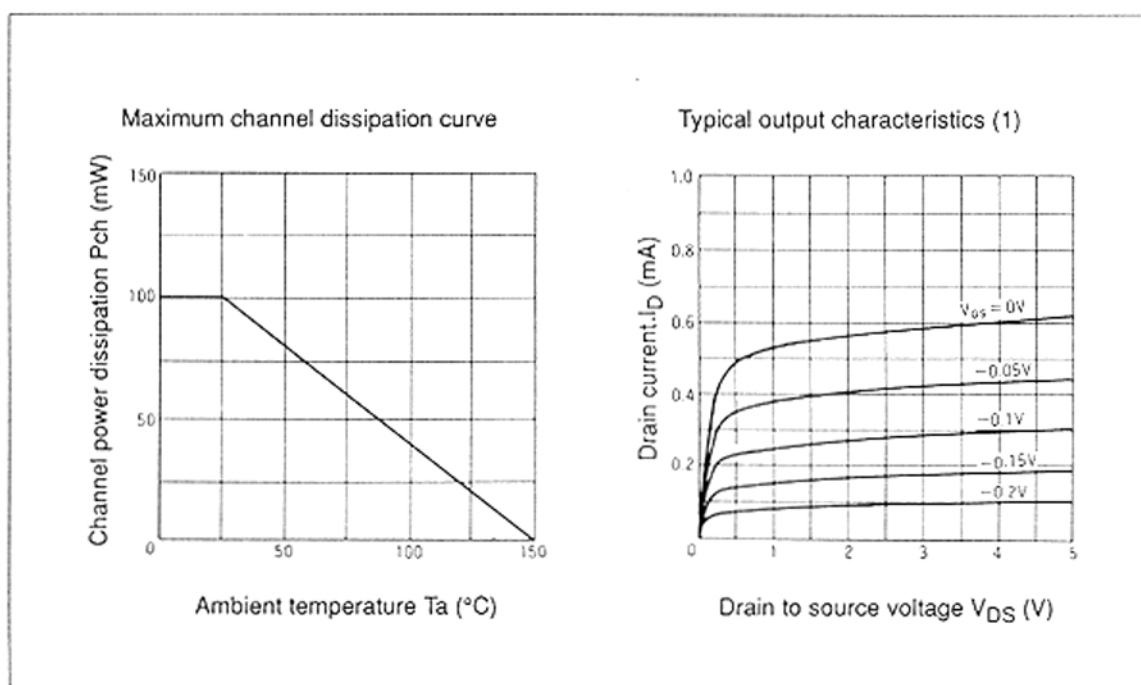
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Table 2 Electrical Characteristics (Ta = 25°C)

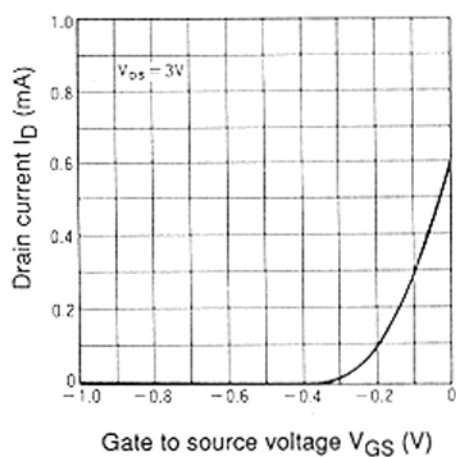
Item	Symbol	Min	Typ	Max	Unit	Test condition
Gate cutoff current	I_{GSS}	—	—	-1	nA	$V_{GS} = -10\text{ V}, V_{DS} = 0$
Gate to source breakdown voltage	$V_{(BR)GSS}$	-20	—	—	V	$I_G = -10\ \mu\text{A}, V_{DS} = 0$
Drain current	I_{DSS}^*	300	—	1400	μA	$V_{DS} = 3\text{ V}, V_{GS} = 0$
Gate to source cutoff voltage	$V_{GS(off)}$	0	—	-0.8	V	$V_{DS} = 3\text{ V}, I_D = 1\ \mu\text{A}$
Forward transfer admittance	$ y_{fs} $	2.0	3.5	—	mS	$V_{DS} = 3\text{ V}, V_{GS} = 0,$ $f = 1\text{ kHz}$
Input capacitance	C_{iss}	—	3.2	—	pF	$V_{DS} = 3\text{ V}, V_{GS} = 0,$ $f = 1\text{ MHz}$
Reverse transfer capacitance	C_{rss}	—	1.2	—	pF	$V_{DS} = 3\text{ V}, V_{GS} = 0,$ $f = 1\text{ MHz}$

* The 2SK1479 is grouped by I_{DSS} as follows.

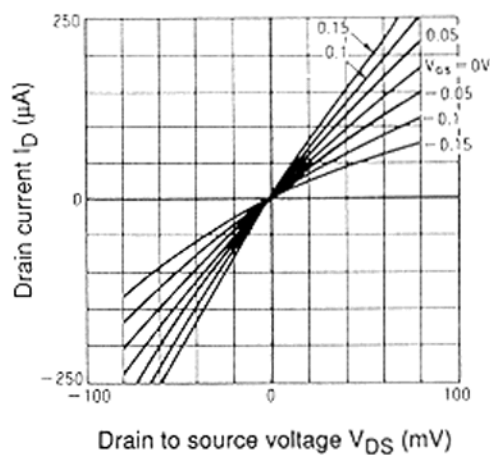
Grade	A	B
Mark	XLA	XLB
I_{DSS} (μA)	300 to 800	600 to 1400



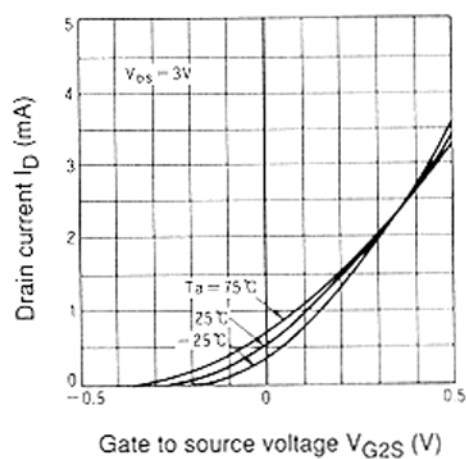
Typical transfer characteristics (1)



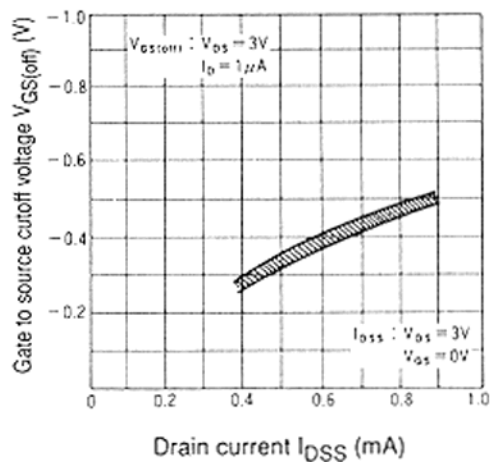
Typical output characteristics (2)



Typical transfer characteristics (2)

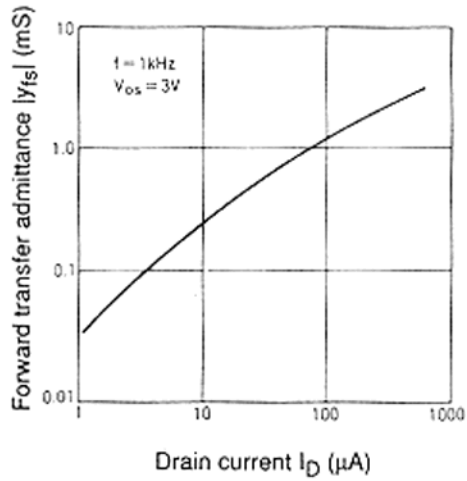


Gate to source cutoff voltage vs. drain current

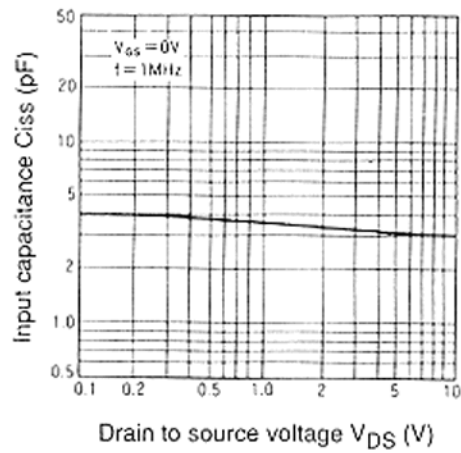


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Forward transfer admittance
vs. drain current



Input capacitance
vs. drain to source voltage



Reverse transfer capacitance
vs. drain to source voltage

