

2SK360

Silicon N-Channel MOS FET

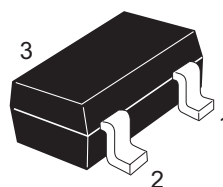
REJ03G0811-0200
(Previous ADE-208-1170)
Rev.2.00
Aug.10.2005

Application

VHF amplifier

Outline

RENESAS Package code: PLSP0003ZB-A
(Package name: MPAK)



- 1. Gate
- 2. Drain
- 3. Source

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Ratings	Unit
Drain to source voltage	V_{DSX}^{*1}	20	V
Gate to source voltage	V_{GSS}	±5	V
Drain current	I_D	30	mA
Gate current	I_G	±1	mA
Channel power dissipation	Pch	150	mW
Channel temperature	Tch	150	°C
Storage temperature	Tstg	−55 to +150	°C

Note: 1. $V_{GS} = -4$ V

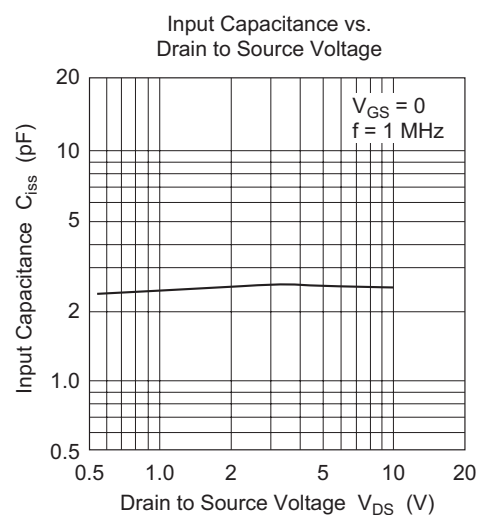
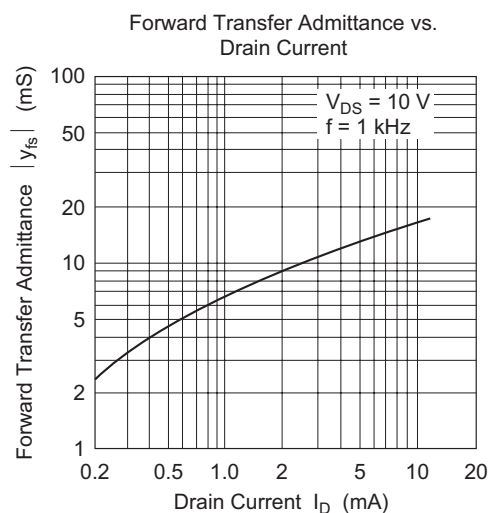
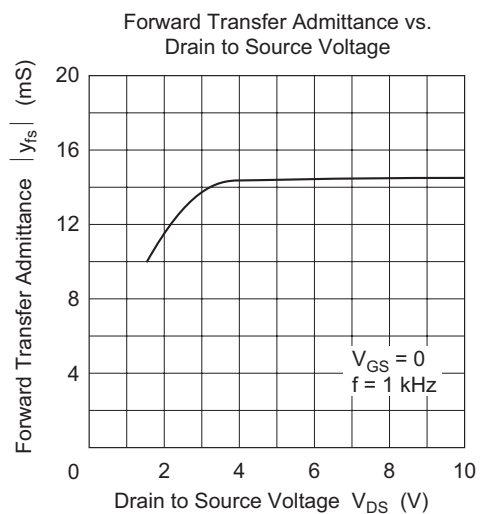
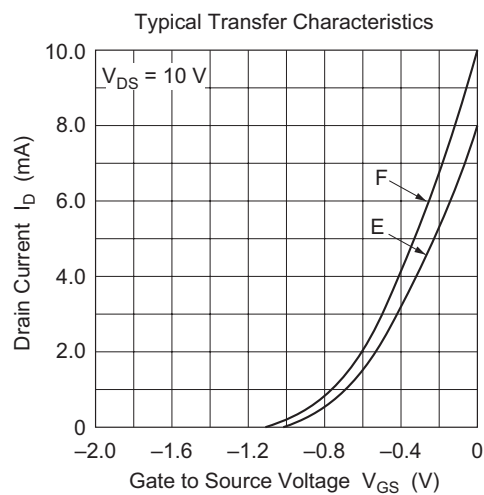
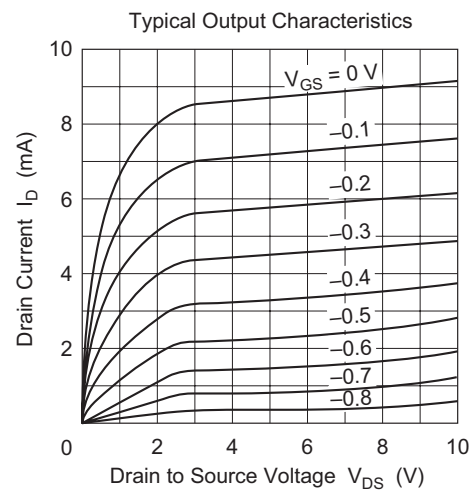
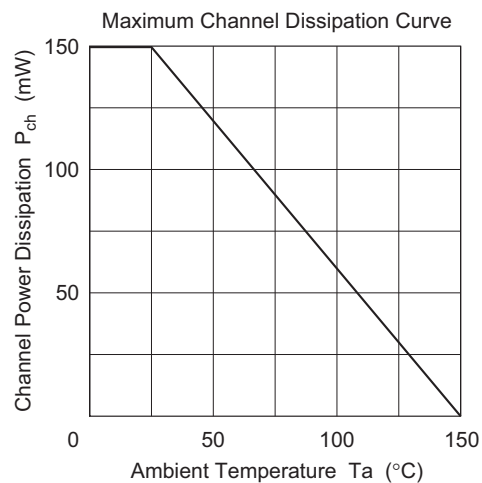
Electrical Characteristics

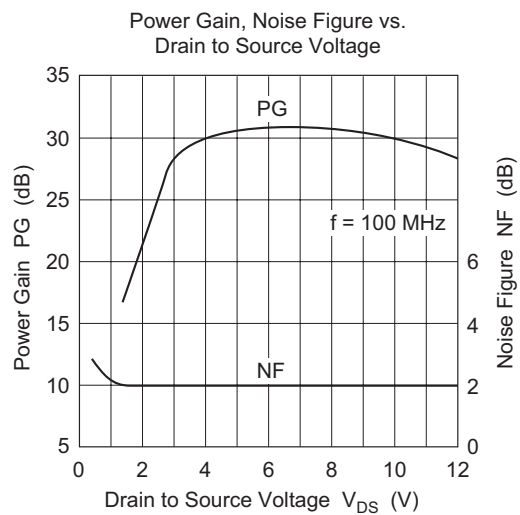
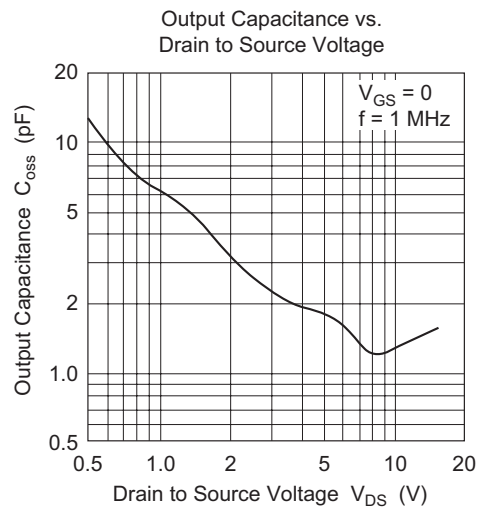
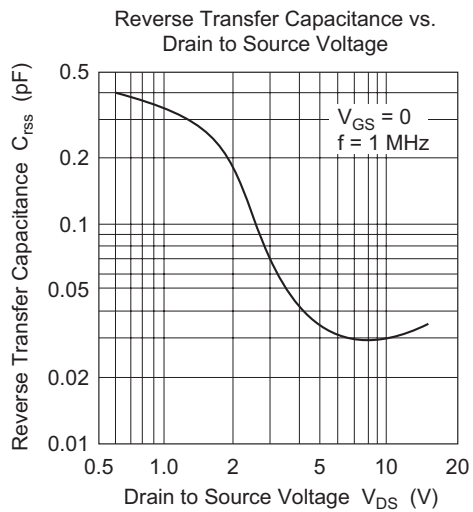
(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Drain to source breakdown voltage	$V_{(BR)DSX}$	20	—	—	V	$I_D = 100 \mu A$, $V_{GS} = -4$ V
Gate cutoff current	I_{GSS}	—	—	±20	nA	$V_{GS} = \pm 5$ V, $V_{DS} = 0$
Drain current	I_{DSS}^{*1}	6	—	12	mA	$V_{DS} = 10$ V, $V_{GS} = 0$
Gate to source cutoff voltage	$V_{GS(off)}$	0	—	−2.0	V	$V_{DS} = 10$ V, $I_D = 10 \mu A$
Forward transfer admittance	$ y_{fs} $	8	14	—	mS	$V_{DS} = 10$ V, $V_{GS} = 0$, $f = 1$ kHz
Input capacitance	Ciss	—	2.5	—	pF	$V_{DS} = 10$ V, $V_{GS} = 0$, $f = 1$ MHz
Output capacitance	Coss	—	1.6	—	pF	
Reverse transfer capacitance	Crss	—	0.03	—	pF	
Power gain	PG	—	30	—	dB	$V_{DS} = 10$ V, $V_{GS} = 0$, $f = 100$ MHz
Noise figure	NF	—	2.0	—	dB	

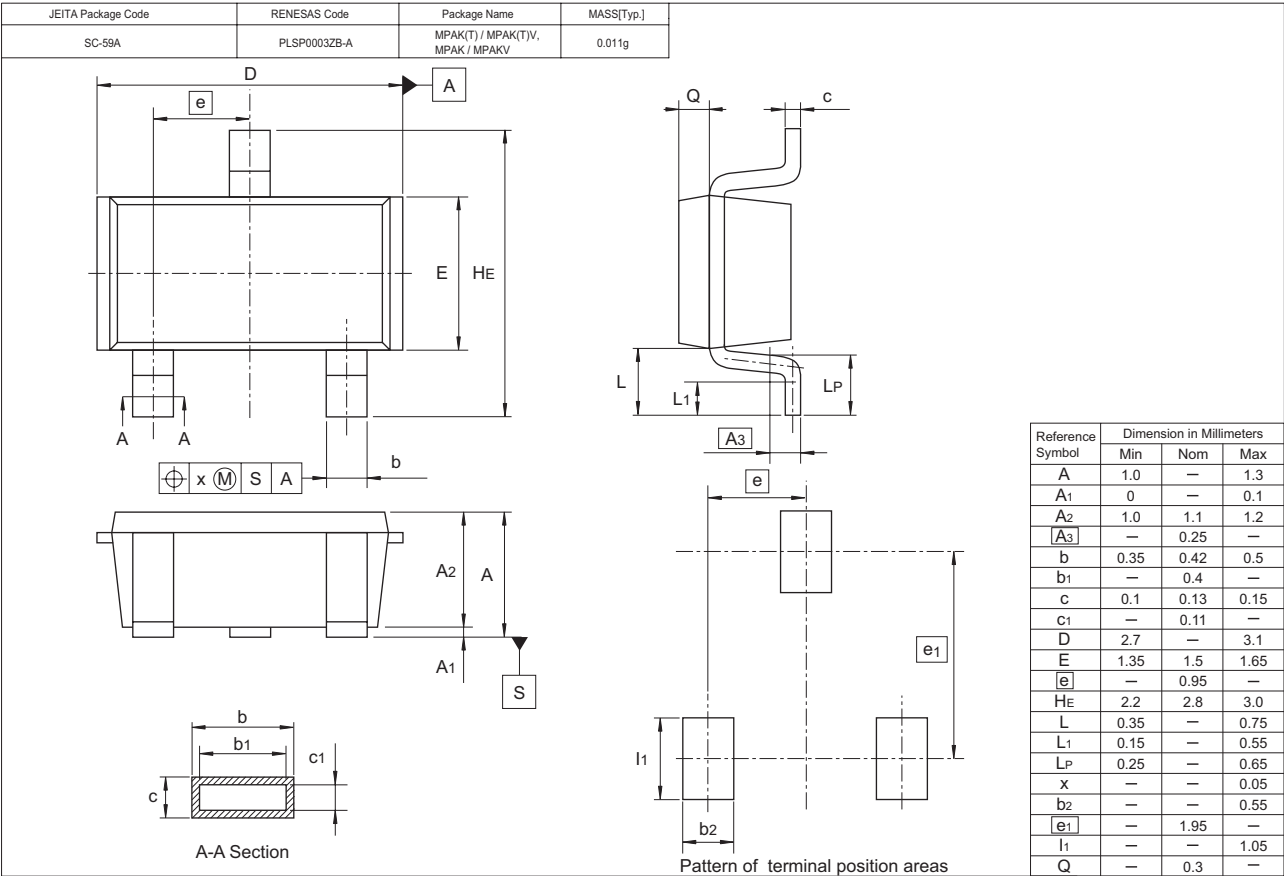
Note: 1. The 2SK360 is grouped by I_{DSS} as follows.

Grade	E	F
Mark	IGE	IGF
I_{DSS}	6 to 10	8 to 12





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SK360IGETL	3000	φ178mm Reel , 8mm Emboss Taping
2SK360IGFTL	3000	φ178mm Reel , 8mm Emboss Taping

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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