



JUNCTION FIELD EFFECT TRANSISTOR 2SK3653B

N-CHANNEL SILICON JUNCTION FIELD EFFECT TRANSISTOR FOR IMPEDANCE CONVERTER OF ECM

DESCRIPTION

The 2SK3653B is suitable for converter of ECM.

General-purpose product.

FEATURES

- · Low noise:
- -108.5 dB TYP. (V_{DD} = 2.0 V, C = 5 pF, R_L = 2.2 k Ω)
- · Especially suitable for audio and telephone
- Super thin thickness package:
 - t = 0.37 mm TYP.

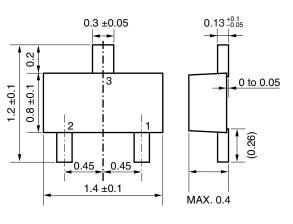
ORDERING INFORMATION

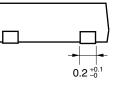
PART NUMBER	PACKAGE		
2SK3653B	3pXSOF (0814)		

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^{\circ}C$)

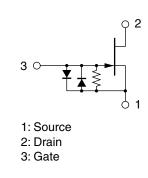
Drain to Source Voltage (VGs = -1.0 V)	VDSX	20	V
Gate to Drain Voltage	Vgdo	-20	V
Drain Current	lо	10	mA
Gate Current	lg	10	mA
Total Power Dissipation	Pτ	100	mW
Junction Temperature	Tj	125	°C
Storage Temperature	Tstg	–55 to +125	°C

PACKAGE DRAWING (Unit: mm)





EQUIVALENT CIRCUIT



Caution Please take care of ESD (Electro Static Discharge) when you handle the device in this document.

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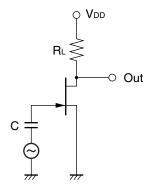
查<mark>裡世俗來認知道中在</mark>CTERISTICS (TA = 25°C)

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Zero Gate Voltage Drain Cut-off Current	IDSS VDS = 2.0 V, VGS = 0 V		90	200	430	μA
Gate Cut-off Voltage	V _{GS(off)}	V _{DS} = 2.0 V, I _D = 1.0 μA		-0.37	-1.0	V
Forward Transfer Admittance	yfs1	V _{DS} = 2.0 V, I _D = 30 μA, f = 1.0 kHz	300	480		μS
	yfs2	V _{DS} = 2.0 V, V _{GS} = 0 V, f = 1.0 kHz	750	1300		μS
Input Capacitance	Ciss	V _{DS} = 2.0 V, V _{GS} = 0 V, f = 1.0 MHz		4.0		рF
Voltage Gain	Gv	V _{DD} = 2.0 V, C = 5 pF, RL = 2.2 kΩ,		-1.0		dB
		Vıℕ = 10 mV, f = 1 kHz				
Noise Voltage	NV	V _{DD} = 2.0 V, C = 5 pF, RL = 2.2 kΩ,		-108.5		dB
		A-curve				

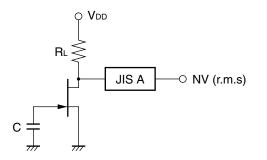
IDSS CLASSIFICATION

MARKING	CE	CF	СН	CJ
loss (μA)	90 to 180	150 to 240	210 to 350	320 to 430

VOLTAGE GAIN TEST CIRCUIT

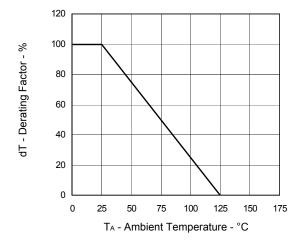


NOISE VOLTAGE TEST CIRCUIT



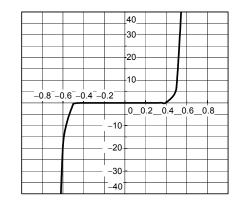
查询的CALO CHARTERISTICS (TA = 25°C)

DERATING FACTOR OF POWER DISSIPATION

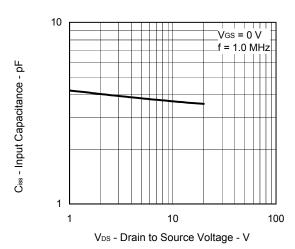


GATE TO SOURCE CURRENT vs. GATE TO SOURCE VOLTAGE



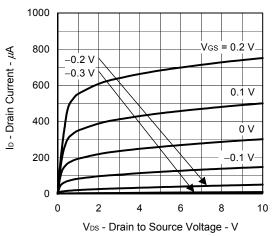


VGS - Gate to Source Voltage - V

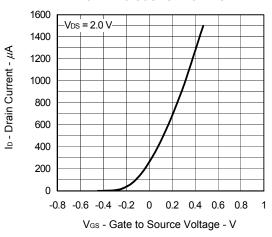


INPUT CAPACITANCE vs. DRAIN TO SOURCE VOLTAGE

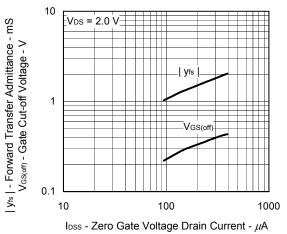
DRAIN CURRENT vs. DRAIN TO SOURCE VOLTAGE

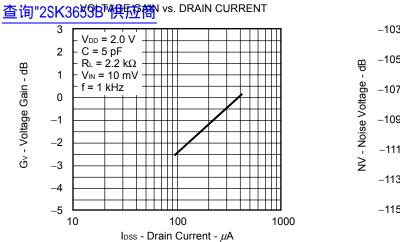


DRAIN CURRENT vs. GATE TO SOURCE VOLTAGE

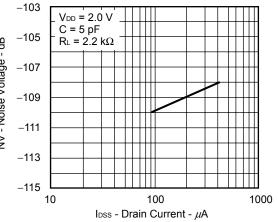


FORWARD TRANSFER ADMITTANCE AND GATE CUT-OFF VOLTAGE vs. ZERO GATE VOLTAGE DRAIN CURRENT









查询"2SK3653B"供应商

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