2SK932

ON Semiconductor®

ON Semiconduct

N-Channel JFET 15V, 5 to 24mA, 50mS, CP

Applications

· AM tuner RF amplifier, low-noise amplifier

Features

- · Adoption of FBET process
- · Large | yfs |
- · Small Ciss
- · Ultralow noise figure
- · Ultrasmall-sized package permitting 2SK932-applied sets to be made smaller and slimmer

Specifications

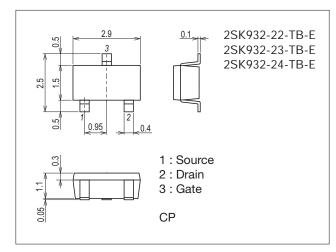
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		15	V
Gate-to-Drain Voltage	V _{GDS}		-15	V
Gate Current	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	PD		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7013A-011



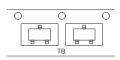
Product & Package Information

• Package : CP

• JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB

• Minimum Packing Quantity: 3,000 pcs./reel

Packing Type: TB



FANK E

Marking

Electrical Connection



Electrical Characteristics at Ta=25°C

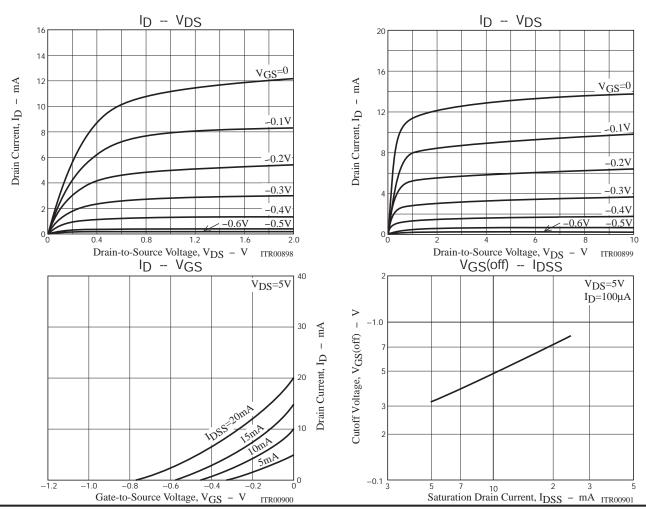
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Utill
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-15			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-5V, V _{GS} =0V	5.0*		24.0*	mA
Cutoff Voltage	V _{GS} (off)	V _{DS} =5V, I _D =100μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	yfs	V _{DS} =5V, V _{GS} =0V, f=1kHz	25	50		mS
Input Capacitance	Ciss	V== EV V== OV f 1MH=		10		pF
Reverse Transfer Capacitance	Crss	V _{DS} =5V, V _{GS} =0V, f=1MHz		3.0		pF
Noise Figure	NF	V_{DS} =5V, R_g =1k Ω , I_D =1mA, f=1kHz		1.5		dB

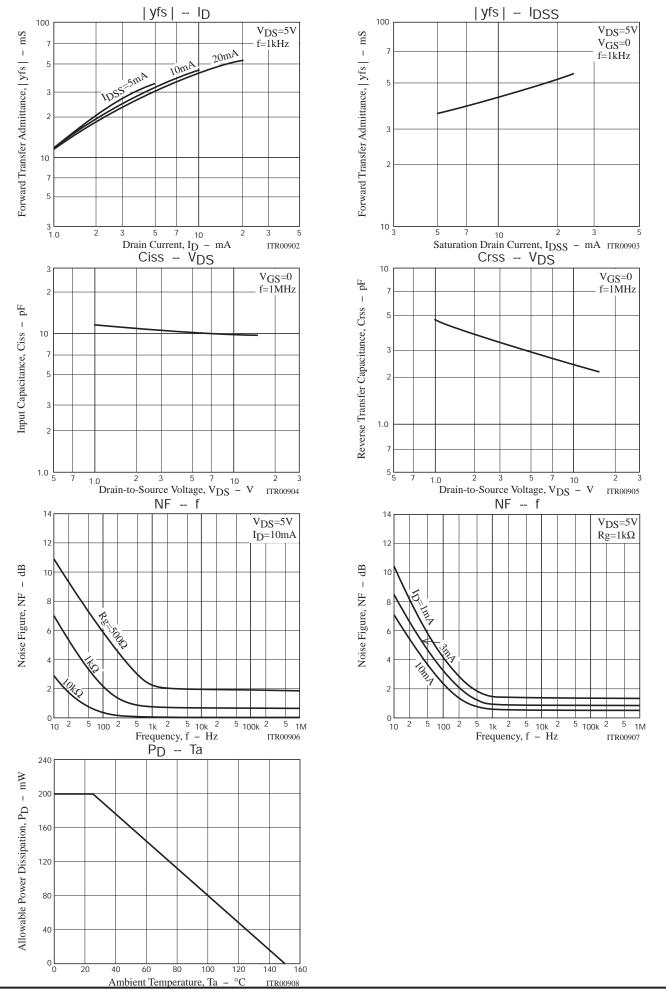
*: The 2SK932 is classified by IDSS as follows: (unit: mA)

Rank	21	22	23	24	
IDSS	5.0 to 8.5	7.3 to 12.0	10.0 to 17.0	14.5 to 24.0	

Ordering Information

Device	Package	Shipping	memo	
2SK932-22-TB-E	СР	3,000pcs./reel		
2SK932-23-TB-E	СР	3,000pcs./reel	Pb Free	
2SK932-24-TB-E	СР	3,000pcs./reel		



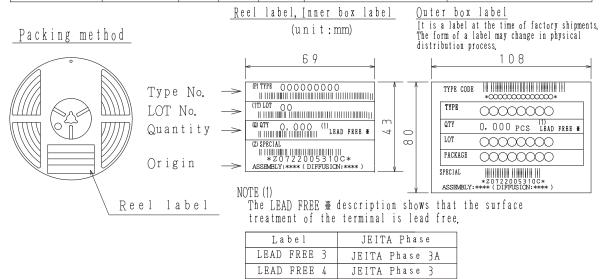


Embossed Taping Specification

2SK932-22-TB-E, 2SK932-23-TB-E, 2SK932-24-TB-E

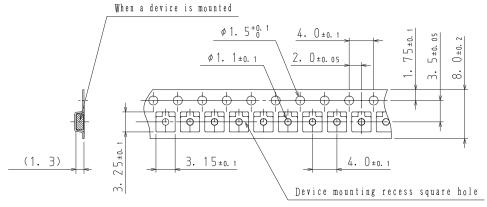
1. Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
СР	СР	3, 000 15, 000		90,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	

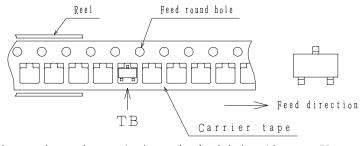


7. Taping configuration

2-1. Carrier tape size (unit:mm)



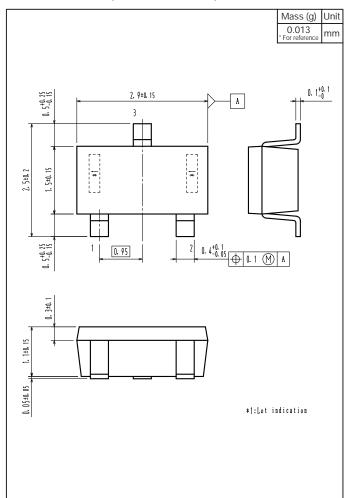
2-2. Device placement direction



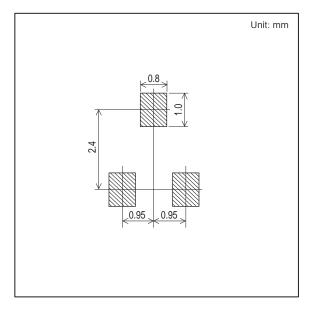
Those with one electrode terminal on the feed hole side·····TB

Outline Drawing

2SK932-22-TB-E, 2SK932-23-TB-E, 2SK932-24-TB-E



Land Pattern Example



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