2SK3557

N-Channel JFET 15V, 10 to 32mA, 35mS, CP



Applications

- · AM tuner RF amplification
- · Low noise amplifier

Features

- Large | yfs |
- Small Ciss
- · Ultrasmall-sized package permitting 2SK3557-applied sets to be made smaller and slimer
- Ultralow noise figure

Specifications

Absolute Maximum Ratings at Ta=25°C

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Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSX		15	V
Gate-to-Drain Voltage	VGDS		-15	V
Gate Current	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	PD		200	mW
Junction Temperature	Тј		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 : CP

• Package

• JEITA, JEDEC

C

- : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

Packing Type: TL





Electrical Connection



Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	UIII
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-15			V
Gate Cutoff Current	IGSS	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Cutoff Voltage	V _{GS} (off)	V _{DS} =5V, I _D =100µA	-0.3	-0.7	-1.5	V
Drain Current	IDSS	V _{DS} =5V, V _{GS} =0V	10*		32*	mA
Forward Transfer Admittance	yfs	VDS=5V, VGS=0V, f=1kHz 24		35		mS
Input Capacitance	Ciss	V _{DS} =5V, V _{GS} =0V, f=1MHz 10.0			рF	
Reverse Transfer Capacitance	Crss	V _{DS} =5V, V _{GS} =0V, f=1MHz 2.9			pF	
Noise Figure	NF	$V_{DS}=5V, R_{g}=1k\Omega, I_{D}=1mA, f=1kHz$ 1.0			dB	

 * : The 2SK3557 is classified by IDSS as follows : (unit : mA)

Rank	6	7
IDSS	10.0 to 20.0	16.0 to 32.0

Ordering Information

Device	Package	Shipping	memo	
2SK3557-6-TB-E	CP	3,000pcs./reel	Pb Free	
2SK3557-7-TB-E	CP	3,000pcs./reel	- PD Flee	





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IT04226

Embossed Taping Specification 2SK3557-6-TB-E, 2SK3557-7-TB-E

1. Packing Format



2. Taping configuration



2-2. Device placement direction



Those with one electrode terminal on the feed hole side TB

Outline Drawing

2SK3557-6-TB-E, 2SK3557-7-TB-E



Land Pattern Example



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