3SK263

N-Channnel Dual Gate MOSFET 15V,30mA,PG=21dB,NF=1.1dB, CP4



Features

- Enhancement type
- Small noise figure
- Small cross modulation

Specifications

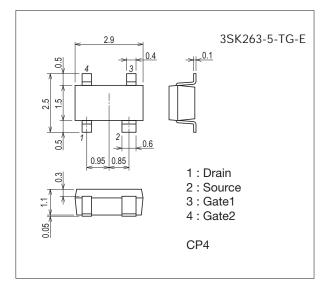
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDS		15	V
Gate1-to-Source Voltage	V _{G1S}		±8	V
Gate2-to-Source Voltage	V _{G2S}		±8	V
Drain Current	ID		30	mA
Allowable Power Dissipation	PD		200	mW
Channel Temperature	Tch		125	°C
Storage Temperature	Tstg		-55 to +125	°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) 7014A-006



Product & Package Information

- Package : CP4
- JEITA, JEDEC : SC-61, SC-82AB, SOT-143, SOT-343

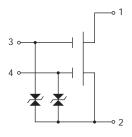
Marking

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

Packing Type: TG



Electrical Connection



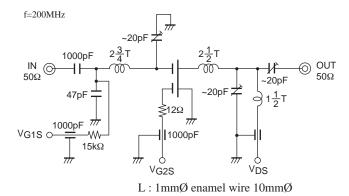
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter	Symbol	Symbol Conditions		typ	max	Unit
Drain-to-Source Voltage	VDS	VG1S=0V, VG2S=0V, ID=100µA	15			V
Gate1-to-Source Cutoff Voltage	V _{G1S} (off)	V _{DS} =6V, V _{G2S} =4V, I _D =100µA	0	0.7	1.3	V
Gate2-to-Source Cutoff Voltage	V _{G2S} (off)	V _{DS} =6V, V _{G1S} =3V, I _D =100µA	0.1	0.9	1.6	V
Gate1-to-Source Leakage Current	IG1SS	$V_{G1S}=\pm 6V$, $V_{G2S}=V_{DS}=0V$			±50	nA
Gate2-to-Source Leakage Current	IG2SS	VG2S=±6V, VG1S=VDS=0V			±50	nA
Zero-Gate Voltage Drain Current	IDSX	V _{DS} =6V, V _{G1S} =1.5V, V _{G2S} =4V	2.5*		24*	mA
Forward Transfer Admittance	yfs	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=1kHz		14		mS
Input Capacitance	Ciss			2.7		рF
Reverse Transfer Capacitance	Crss	VDS=6V, f=1MHz, VG1S=0V, VG2S=4V		0.015	0.03	pF
Power Gain	PG	VDS=6V, ID=10mA, VG2S=4V, f=200MHz 18 21			dB	
Noise Figure	NF	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=200MHz 1.1 2.		2.2	dB	

 * : The 3SK263 is classified by IDSX as follows : (unit : mA)

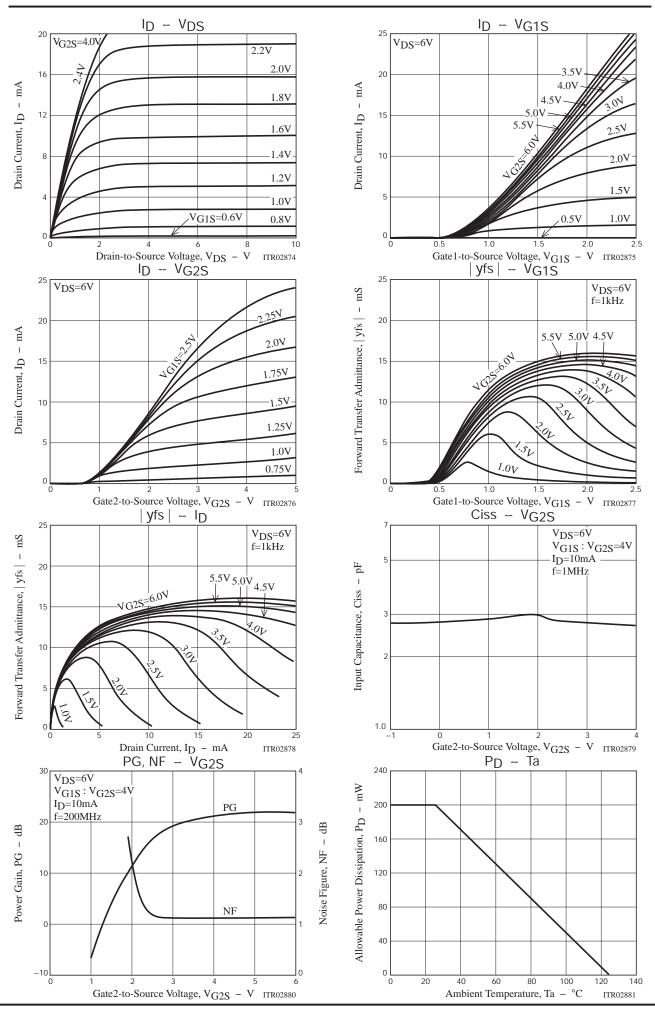
Rank	4	5	6	
IDSX	2.5 to 6.0	5.0 to 12.0	10.0 to 24.0	

PG, NF Specified Test Circult



Ordering Information

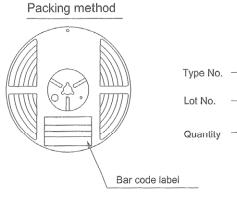
Device	Package	Shipping	memo	
3SK263-5-TG-E	CP4	3,000pcs./reel	Pb Free	

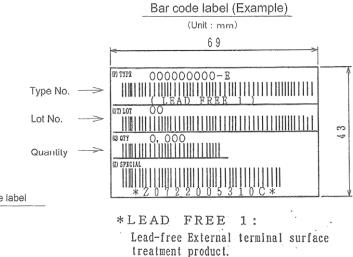


Embossed Taping Specification 3SK263-5-TG-E

	Carrier tape	Maximum Number of devices contained (pcs.)		ber of d (pcs.)	Packing format		
Outline name	Outline name Type number	Reel	Inner box	Outer box	Inner box BOX (C-1)	Outer box BOX (A-7)	
CP4	CP4	3,000	15,000	90,000	5 reels contained Dimensions:mm(external). 1 8 3 × 7 2 × 1 8 5	6 inner boxes contained Dimensions:mm(external) 4 4 0 × 1 9 5 × 2 1 0	

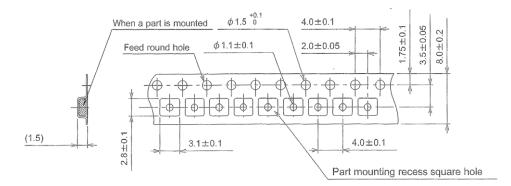
1. Packing format





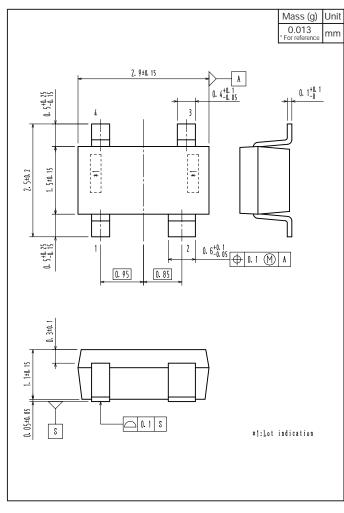
2. Taping structure

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

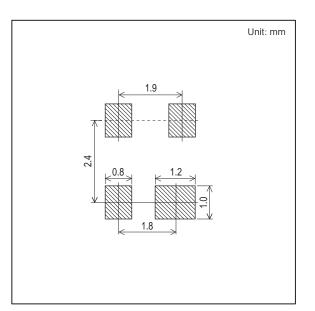


2-2. Parts placement direction Reel Feed round hole \bigcirc Ο 0 Ο \bigcirc \bigcirc 0 Ó <u>a</u> -> Feed direction ΤG Carrier tapes Mechanical index Those with 1 electrode pin on the feed hole side · · · · TG H

Outline Drawing 3SK263-5-TG-E



Land Pattern Example



3SK263

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