



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





3SK263

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

ON Semiconductor®

<http://onsemi.com>

Features

- Enhancement type
- Small noise figure
- Small cross modulation

Specifications

Absolute Maximum Ratings at Ta=25°C

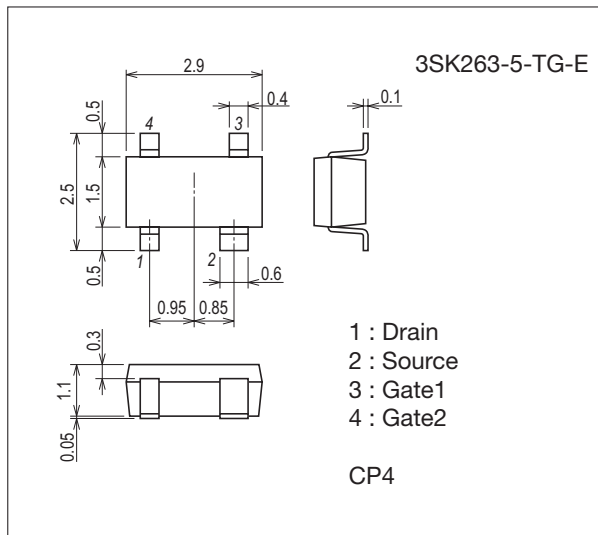
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DS}		15	V
Gate1-to-Source Voltage	V _{G1S}		±8	V
Gate2-to-Source Voltage	V _{G2S}		±8	V
Drain Current	I _D		30	mA
Allowable Power Dissipation	P _D		200	mW
Channel Temperature	T _{ch}		125	°C
Storage Temperature	T _{stg}		-55 to +125	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Package Dimensions

unit : mm (typ)

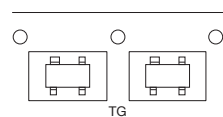
7014A-006



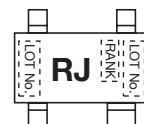
Product & Package Information

- Package : CP4
- JEITA, JEDEC : SC-61, SC-82AB, SOT-143, SOT-343
- Minimum Packing Quantity : 3,000 pcs./reel

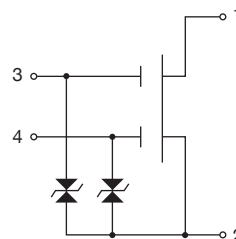
Packing Type: TG



Marking



Electrical Connection



3SK263

Electrical Characteristics at Ta=25°C

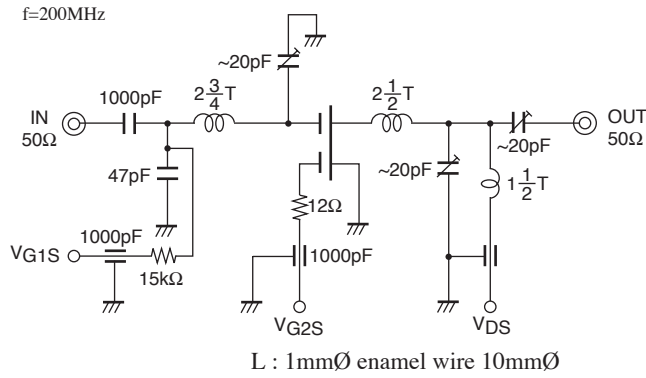
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Voltage	V _{DS}	V _{G1S} =0V, V _{G2S} =0V, I _D =100μA	15			V
Gate1-to-Source Cutoff Voltage	V _{G1S(off)}	V _{DS} =6V, V _{G2S} =4V, I _D =100μA	0	0.7	1.3	V
Gate2-to-Source Cutoff Voltage	V _{G2S(off)}	V _{DS} =6V, V _{G1S} =3V, I _D =100μA	0.1	0.9	1.6	V
Gate1-to-Source Leakage Current	I _{G1SS}	V _{G1S} =±6V, V _{G2S} =V _{DS} =0V			±50	nA
Gate2-to-Source Leakage Current	I _{G2SS}	V _{G2S} =±6V, V _{G1S} =V _{DS} =0V			±50	nA
Zero-Gate Voltage Drain Current	I _{DSX}	V _{DS} =6V, V _{G1S} =1.5V, V _{G2S} =4V	*5		*12	mA
Forward Transfer Admittance	y _{fs}	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=1kHz		14		mS
Input Capacitance	C _{iss}	V _{DS} =6V, f=1MHz, V _{G1S} =0V, V _{G2S} =4V		2.7		pF
Reverse Transfer Capacitance	C _{rss}			0.015	0.03	pF
Power Gain	PG	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=200MHz	18	21		dB
Noise Figure	NF	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=200MHz		1.1	2.2	dB

* : The 3SK263 is classified by I_{DSX} as follows : (unit : mA)

Rank	5
I _{DSX}	5.0 to 12.0

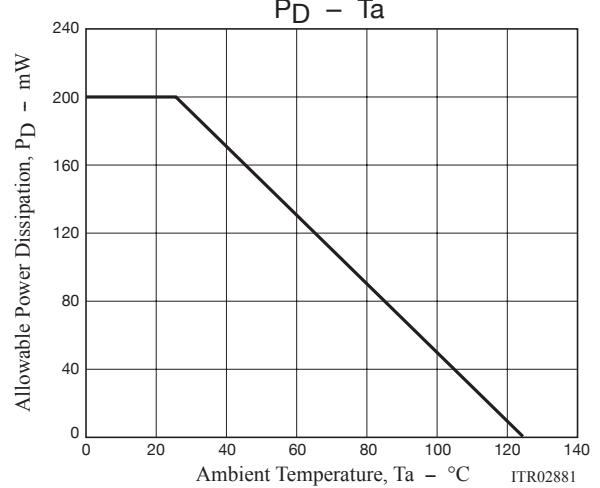
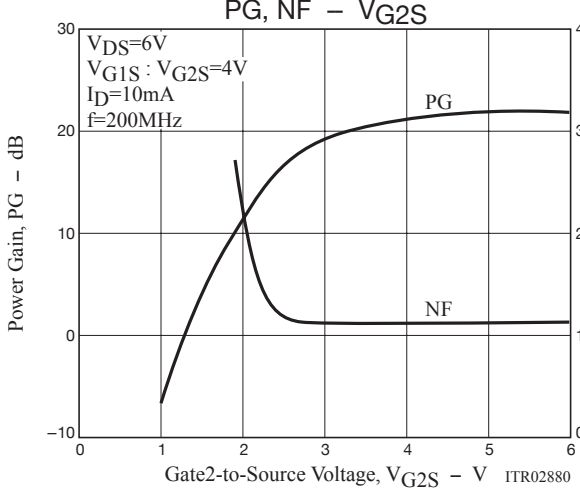
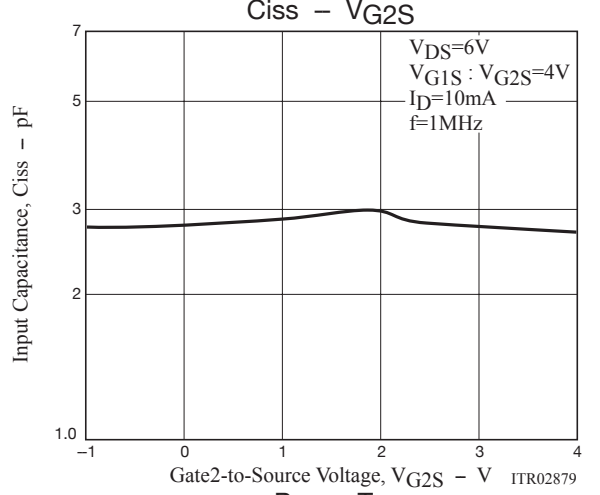
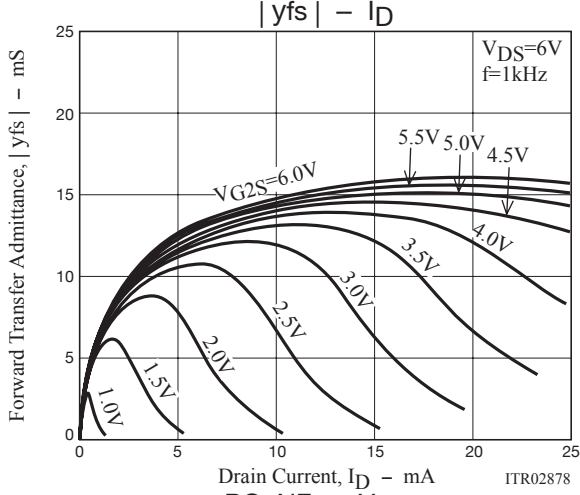
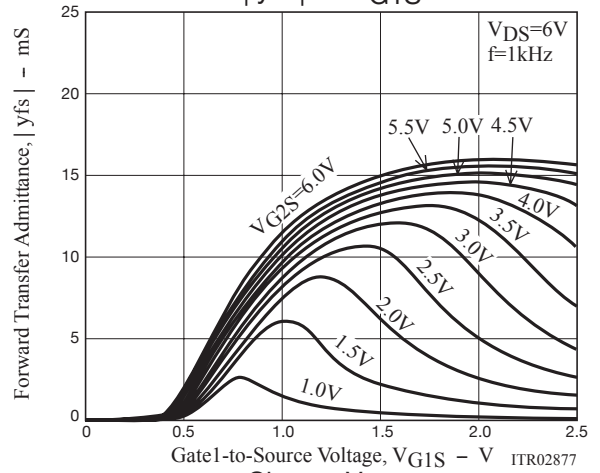
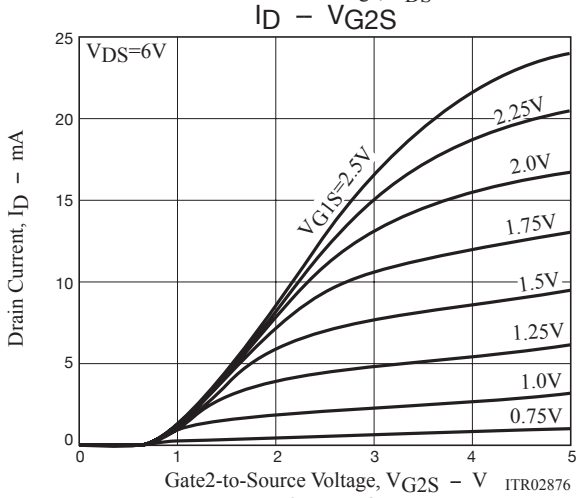
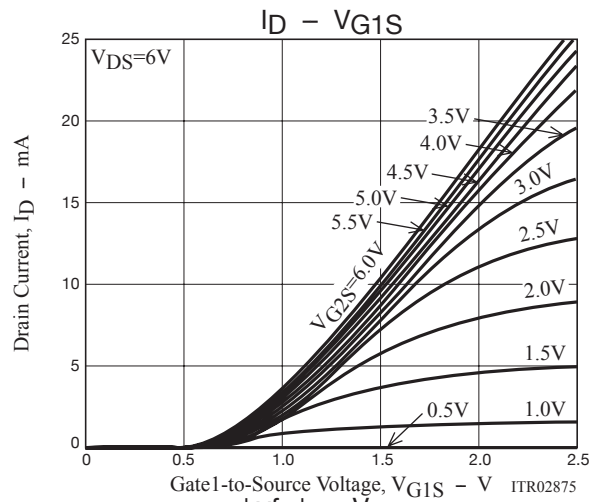
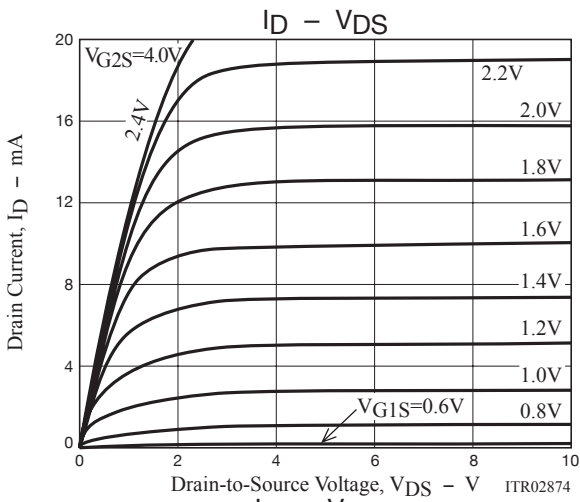
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

PG, NF Specified Test Circuit



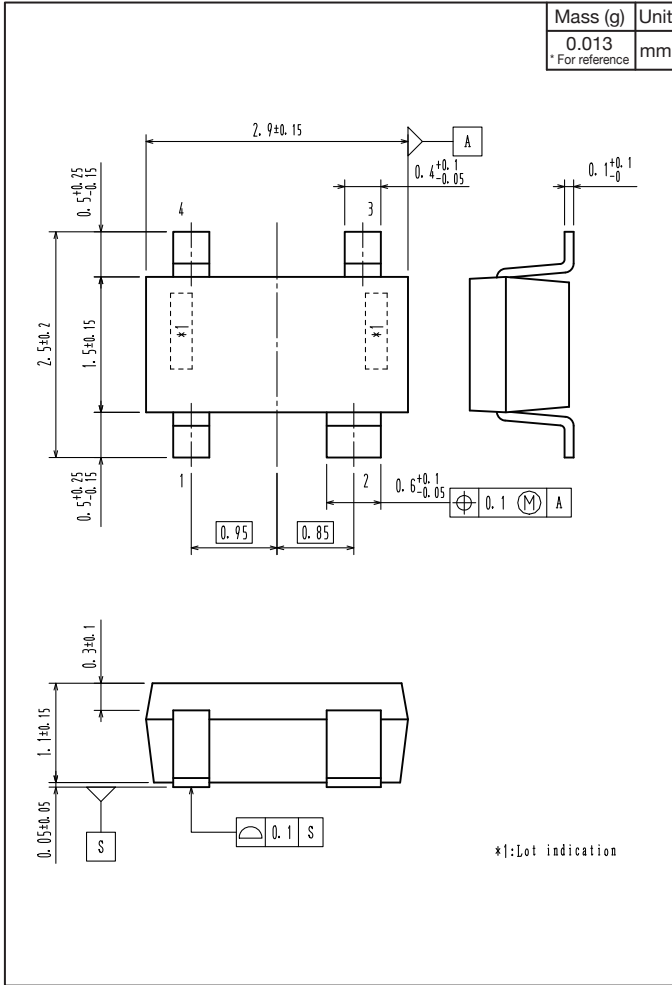
Ordering Information

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

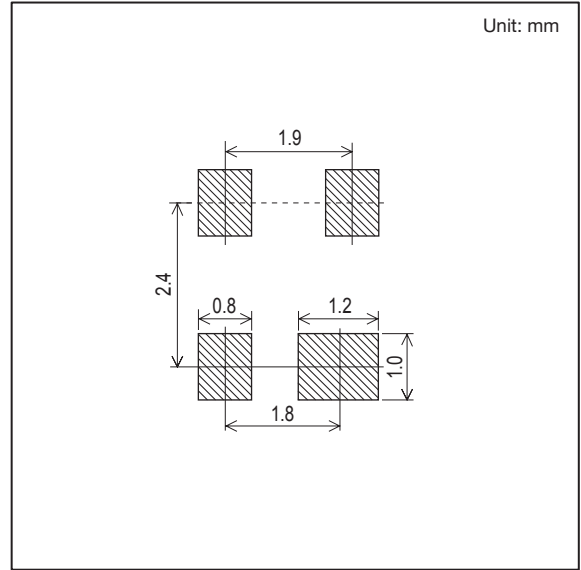


Outline Drawing

3SK263-5-TG-E



Land Pattern Example



ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.