



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

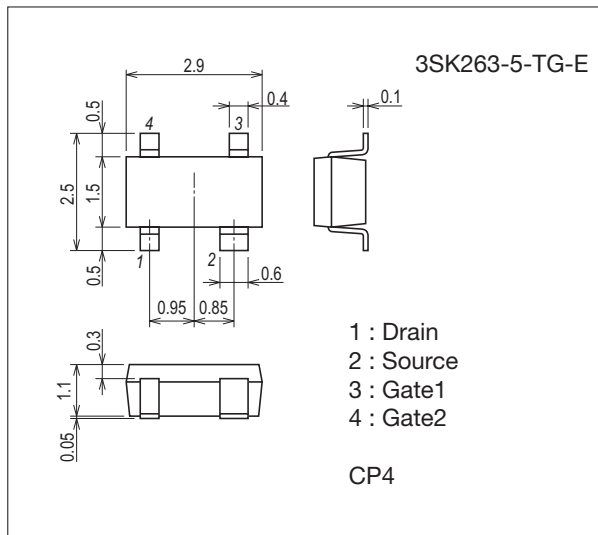
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DS}		15	V
Gate1-to-Source Voltage	V _{G1S}		±8	V
Gate2-to-Source Voltage	V _{G2S}		±8	V
Drain Current	I _D		30	mA
Allowable Power Dissipation	P _D		200	mW
Channel Temperature	T _{ch}		125	°C
Storage Temperature	T _{stg}		-55 to +125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

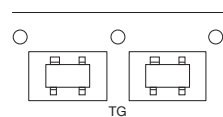
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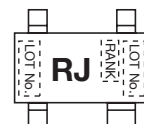
Product & Package Information

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

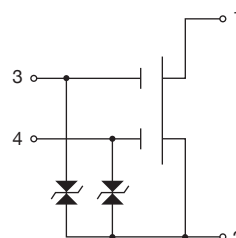
Packing Type: TG



Marking



Electrical Connection



3SK263

Electrical Characteristics at Ta=25°C

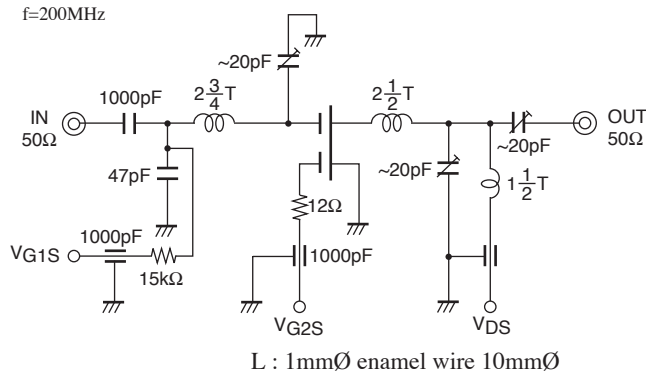
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Voltage	V_{DS}	$V_{G1S}=0V, V_{G2S}=0V, I_D=100\mu A$	15			V
Gate1-to-Source Cutoff Voltage	$V_{G1S(off)}$	$V_{DS}=6V, V_{G2S}=4V, I_D=100\mu A$	0	0.7	1.3	V
Gate2-to-Source Cutoff Voltage	$V_{G2S(off)}$	$V_{DS}=6V, V_{G1S}=3V, I_D=100\mu A$	0.1	0.9	1.6	V
Gate1-to-Source Leakage Current	I_{G1SS}	$V_{G1S}=\pm 6V, V_{G2S}=V_{DS}=0V$			± 50	nA
Gate2-to-Source Leakage Current	I_{G2SS}	$V_{G2S}=\pm 6V, V_{G1S}=V_{DS}=0V$			± 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	
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

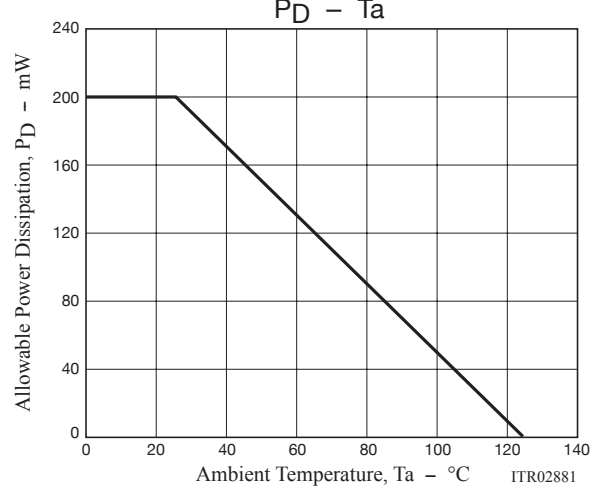
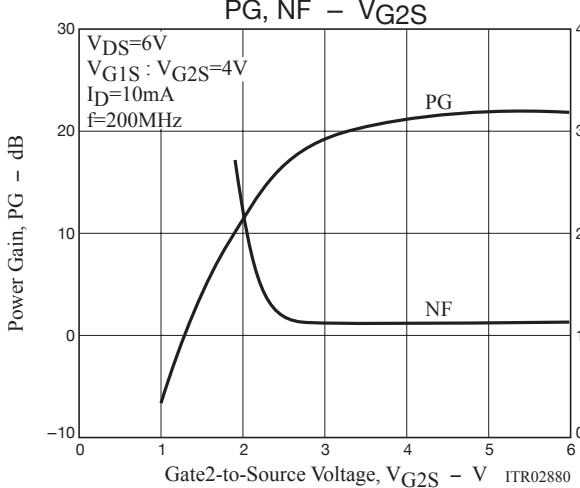
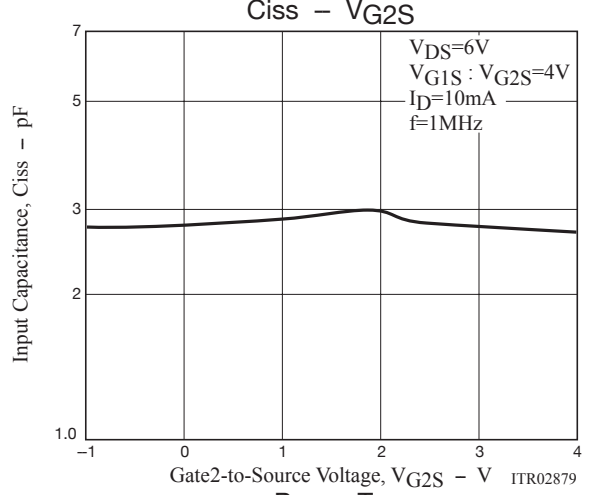
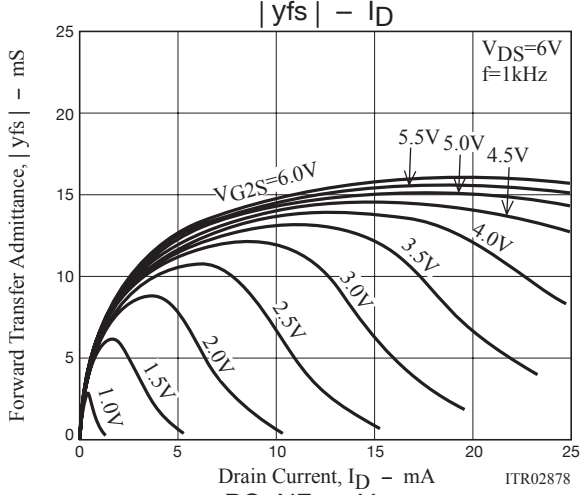
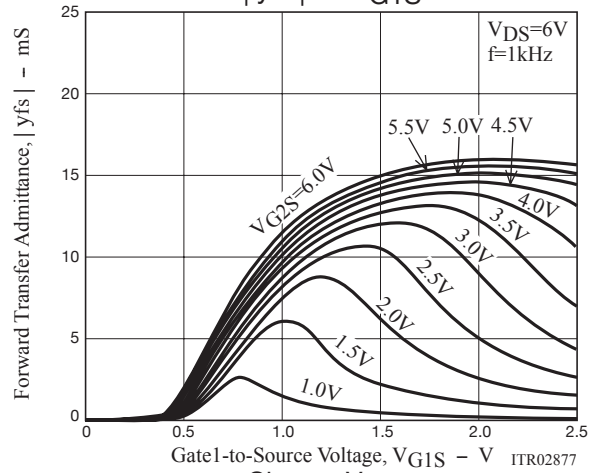
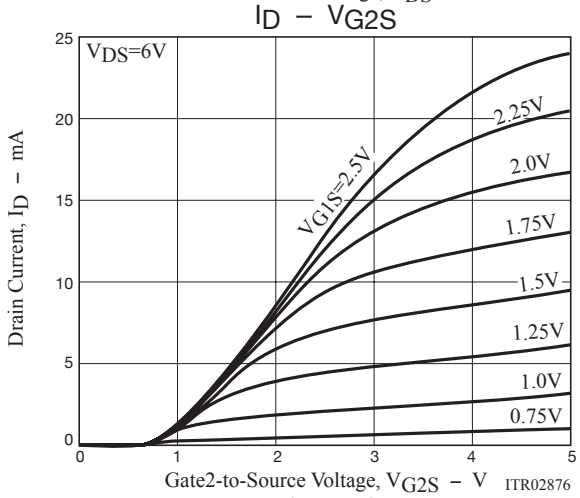
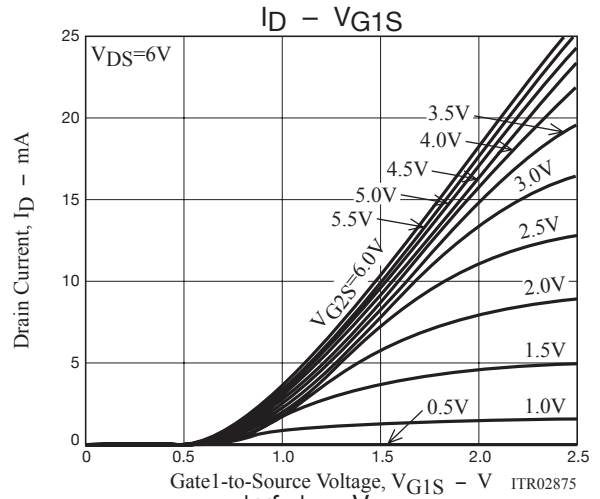
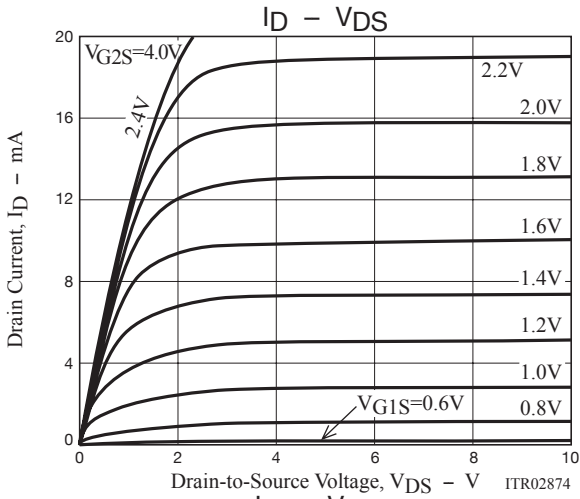
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

PG, NF Specified Test Circuit



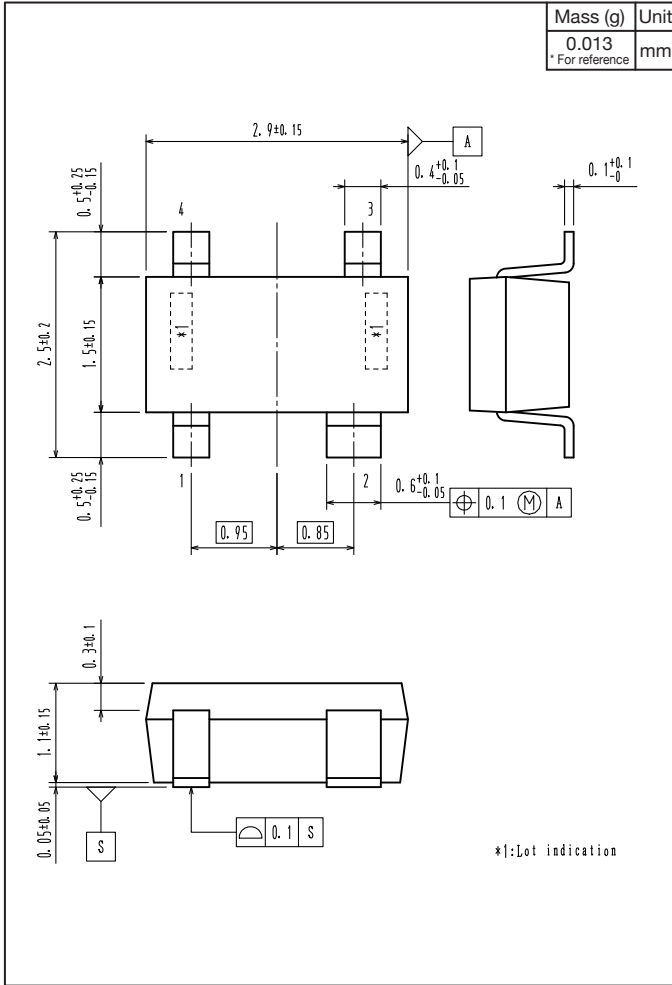
Ordering Information

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

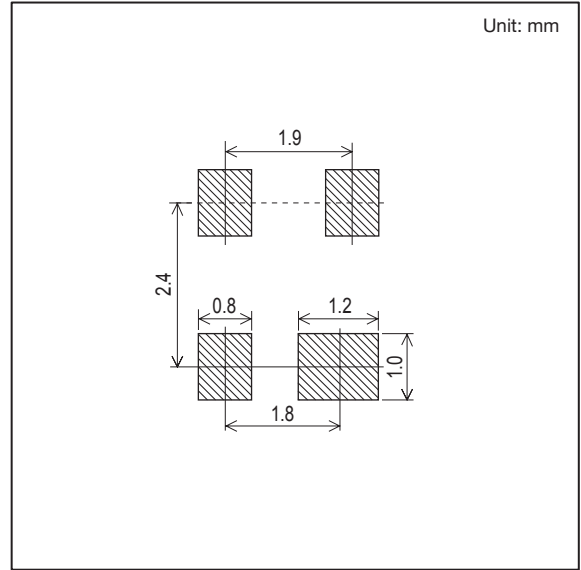


Outline Drawing

3SK263-5-TG-E



Land Pattern Example



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