2SK3666



N-Channel JFET 30V, 0.6 to 3.0mA, 6.5mS, CP

http://onsemi.com

Applications

· Low-frequency general-purpose amplifier, impedance conversion, infrared sensor applications

Features

- · Small IGSS
- · Small Ciss

Specifications

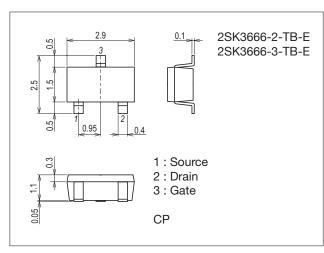
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		30	V
Gate-to-Drain Voltage	V _{GDS}		-30	V
Gate Current	IG		10	mA
Drain Current	ID		10	mA
Allowable Power Dissipation	PD		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°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) 7013A-011



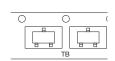
Product & Package Information

• Package : CP

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

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

Packing Type: TL



Marking



Electrical Connection



ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Faranteter			min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0V	-30			V
Gate Cutoff Current	IGSS	V _{GS} =-20V, V _{DS} =0V			-1.0	nA
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1μA	-0.18	-0.95	-2.2	V
Drain Current	IDSS	V _{DS} =10V, V _{GS} =0V	0.6*		3.0*	mA
Forward Transfer Admittance	yfs	V _{DS} =10V, V _{GS} =0V, f=1kHz	3.0	6.5		mS
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0V, f=1MHz 4			pF	
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0V, f=1MHz		1.1		pF
Static Drain-to-Source On-State Resistance	R _{DS} (on)	V _{DS} =10mV, V _{GS} =10V		200		Ω

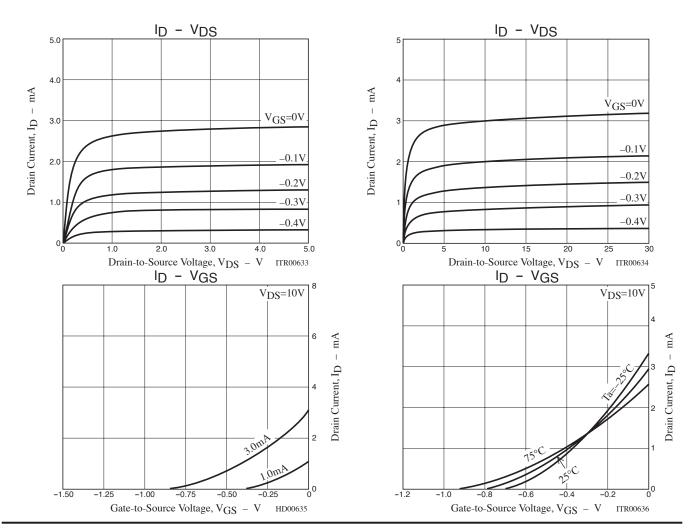
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

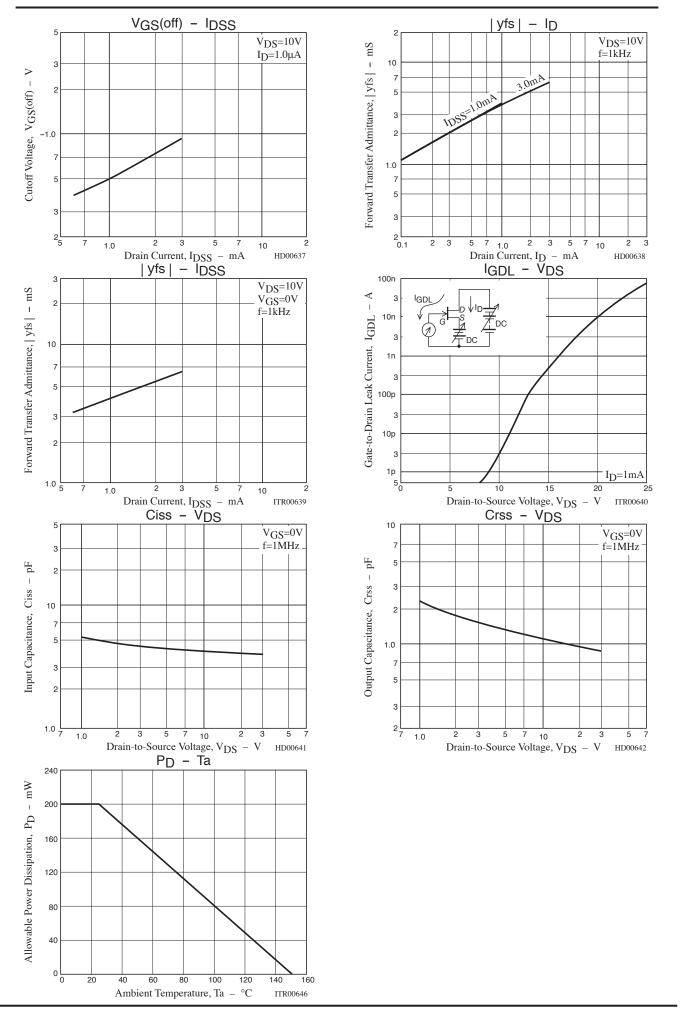
*: The 2SK3666 is classified by IDSS as follows: (unit: mA)

Rank	2	3
IDSS	0.6 to 1.5	1.2 to 3.0

Ordering Information

Device	Package	Shipping	memo
2SK3666-2-TB-E	СР	3,000pcs./reel	Pb Free
2SK3666-3-TB-E	СР	3,000pcs./reel	Pb Free



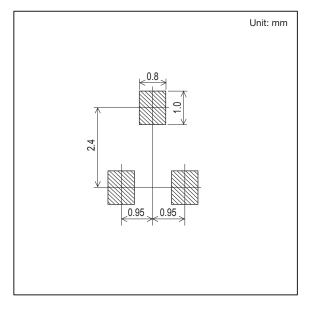


Outline Drawing

2SK3666-2-TB-E, 2SK3666-3-TB-E

Mass (g) Unit 0.013 *For reference mm 2.9±0.15 2.9±0.15 2.0.4±0.1 3.9±0.15 4.1:Lot indication

Land Pattern Example



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