2.5V Drive Nch MOS FET

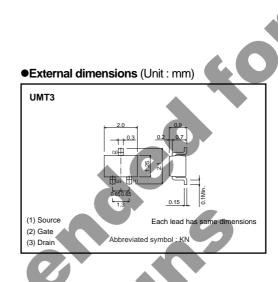
2SK3018

 Structure Silicon N-channel MOSFET

 Applications Interfacing, switching (30V, 100mA)

Features

- 1) Low on-resistance.
- 2) Fast switching speed.
- 3) Low voltage drive (2.5V) makes this device ideal for portable equipment.
- 4) Drive circuits can be simple.
- 5) Parallel use is easy.



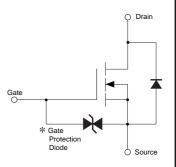
Packa	ging specifications	
	Package	Taping
Туре	Code	T106
	Basic ordering unit (pieces)	3000

2SK3018

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit		
Drain-source voltage		VDSS	30	V		
Gate-source voltage		Vgss	±20	V		
Drain current	Continuous	lo	±100	mA		
Drain current	Pulsed	Idp ^{*1}	±400	mA		
Total power dissipation		Pd ^{*2}	200	mW		
Channel temperature		Tch	150	°C		
Storage temperature		Tstg	-55 to +150	°C		

Equivalent circuit



*A protection diode is included between the gate and the source terminals to protect the diode against static electricity when the product is in use. Use a protection circuit when the fixed voltages are exceeded.

*1 Pw≤10µs, Duty cycle≤1%

*2 With each pin mounted on the recommended lands.

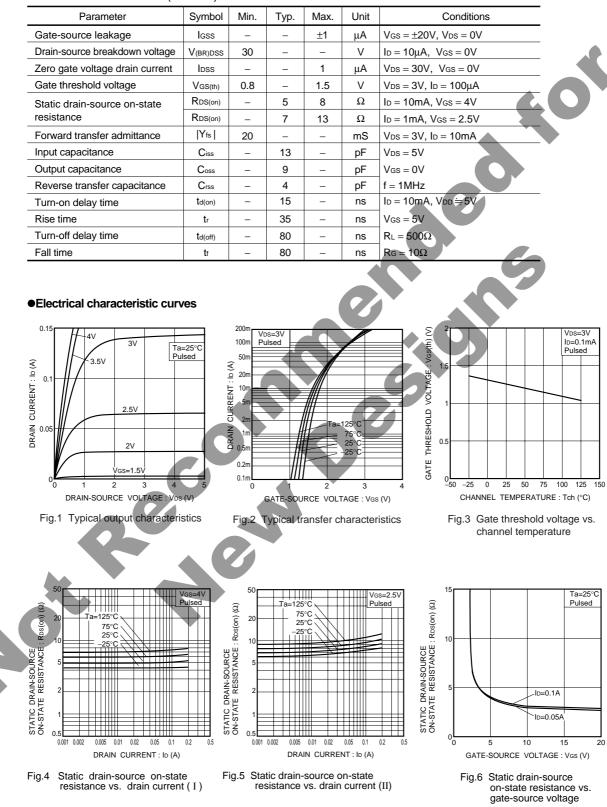
Thermal resistance

Parameter	Symbol	Limits	Unit
Channel to ambient	Rth(ch-a) *	625	°C / W
* With each pin mounted on the recommended lands.			



Transistor

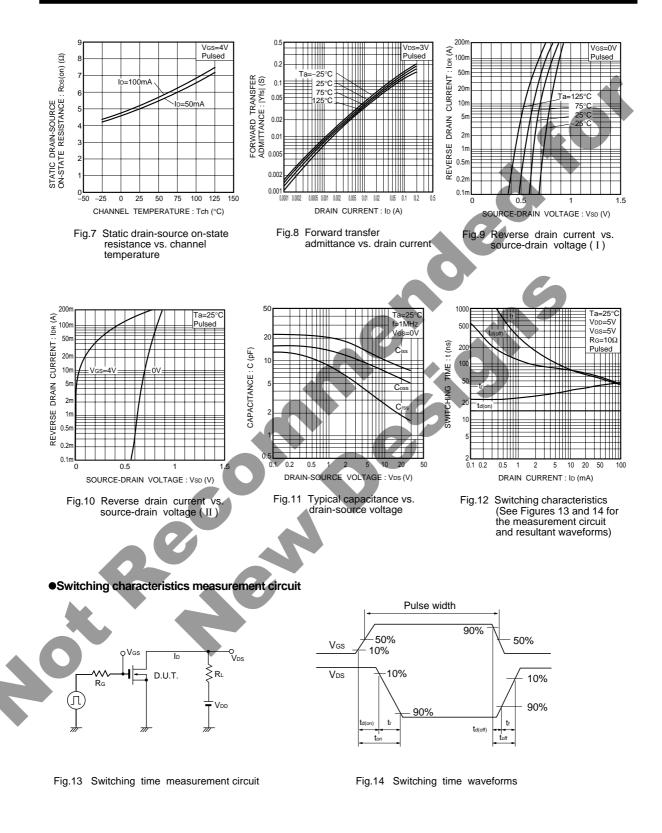
•Electrical characteristics (Ta=25°C)



ROHM

2SK3018

Transistor



Rev.B

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