UM6K1N

s same dimensions

Each

Abbreviated symbol

•External dimensions (Unit : mm)

UMT6

Unit

V

V

mΑ

mΑ

mW

°C

°C

# 2.5V Drive Nch+Nch MOS FET UM6K1N

#### Structure

Silicon N-channel MOS FET

### Features

- 1) Two 2SK3018 transistors in a single UMT package.
- 2) The MOS FET elements are independent, eliminating mutual interference.
- 3) Mounting cost and area can be cut in half.
- 4) Low On-resistance.
- 5) Low voltage drive (2.5V drive) makes this device ideal for portable equipment.

#### Applications

Interfacing, switching (30V, 100mA)

#### Inner circuit Packaging specifications Package Taping Code Туре ΤN Basic ordering unit (pieces) 3000 UM6K1N (1) (3) Tr1 Tr1 Tr1 Tr2 Tr2 Tr2 Tr2 Tr2 Tr2 Source Gate Drain Source Gate A protection diode has been built in between the gate and the source to protect against static electricity when the product is in use. Use the protection circuit when rated welfages are exceeded ● Absolute maximum ratings (Ta=25°C) <It is the same ratings for Tr1 and Tr2.>

Limits

30

±20

±100

±400

150

150 -55 to +150

Drain current
Total power dissipation
Channel temperature
Range of storage tempe

Range of storage temperature \*1 Pw≤10µs, Duty cycle≤1%

Drain-source voltage

Gate-source voltage

\*2 With each pin mounted on the recommended lands

Parameter

#### Thermal resistance

Parameter	Symbol	Limits	Unit
Channel to ambient	Rth(ch-a)*	833	°C / W / TOTAL
		1042	°C / W / ELEMENT

Symbol

 $V_{\text{DSS}}$ 

Vgss

 $\mathbf{I}_{\mathsf{D}}$ 

I<sub>DP</sub> \*1 P<sub>D</sub> \*2

Tch

Tstg

Continuous

Pulsed

\* With each pin mounted on the recommended lands.

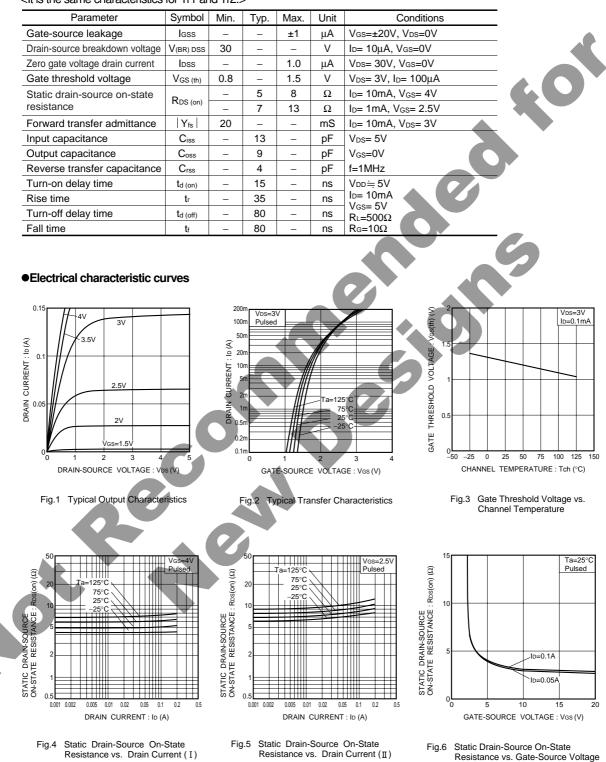


# UM6K1N

## Transistors

#### •Electrical characteristics (Ta=25°C)

<It is the same characteristics for Tr1 and Tr2.>

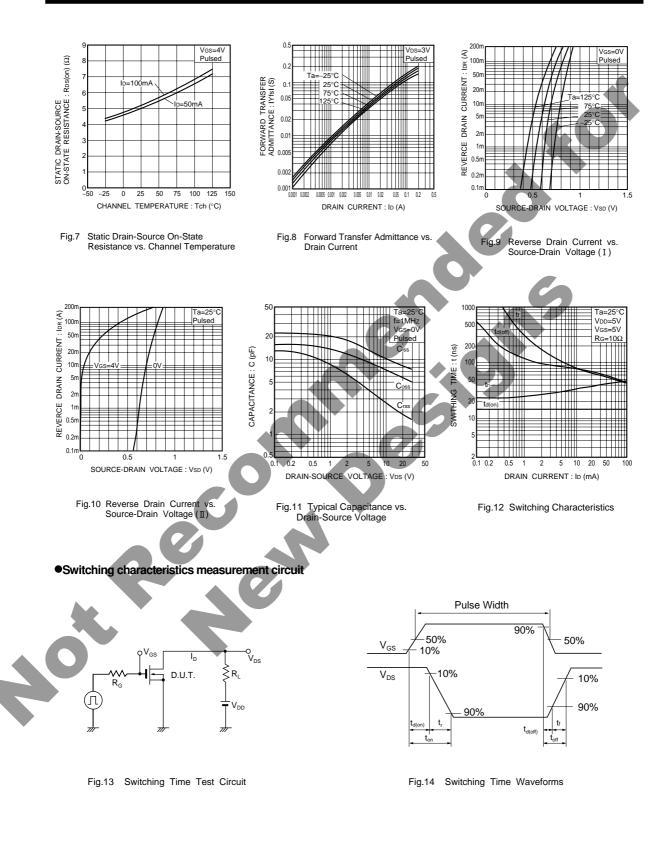


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# UM6K1N

# Transistors



Rev.B

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