



SOT-23 Plastic-Encapsulate MOSFETS

2SK3018

2SK3018 N-Channel 30-V(D-S) MOSFET

$V_{(BR)DSS}$	$R_{DS(on)MAX}$	I_D
30V	2.5Ω@4.5V	0.1A
	3.0Ω@2.5V	

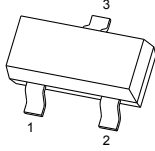
●Features

- 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.
- ⌘ ESD protected 2KV HBM

●Applications

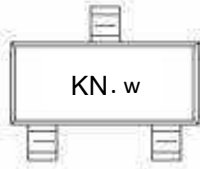
Interfacing, switching (30V, 100mA)

SOT-23 SOT-323

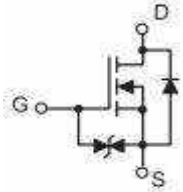


1.GATE
2.SOURCE
3.DRAIN

MARKING



Equivalent Circuit



*w: week code

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Drain-source voltage		V_{DSS}	30	V
Gate-source voltage		V_{GSS}	±20	V
Drain current	Continuous	I_D	±100	mA
	Pulsed	I_{DP}^{*1}	±400	mA
Total power dissipation		P_D^{*2}	200	mW
Channel temperature		Tch	150	°C
Storage temperature		Tstg	-55 to +150	°C

*1 $P_w \leq 10\mu s$, Duty cycle ≤ 1%

*2 With each pin mounted on the recommended lands.

Thermal resistance

Parameter	Symbol	Limits	Unit
Channel to ambient	$R_{th(ch-a)}^*$	625	°C / W

*With each pin mounted on the recommended lands.