

L2SK3018WT1G

N-channel MOSFET

100 mA, 30 V

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Low on-resistance.
- Fast switching speed.
- Easy to parallel.
- ESD>500V
- Low voltage drive (2.5V) makes this device ideal for portable equipment.
- Easily designed drive circuits.

2. DEVICE MARKING AND ORDERING INFORMATION

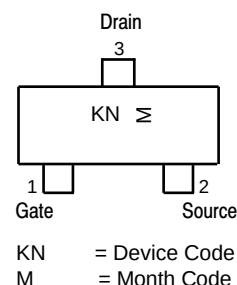
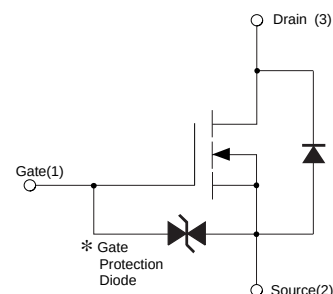
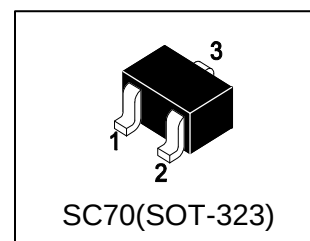
Device	Marking	Shipping
L2SK3018WT1G	KN	3000/Tape&Reel
L2SK3018WT3G	KN	13000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter		Symbol	Limits	Unit
Drain-Source Voltage		VDSS	30	V
Gate-Source Voltage		VGS	±20	V
Drain Current	Continuous	ID	±100	mA
	Pulsed	IDP(Note 1)	±400	
Total power dissipation (TC=25°C)		PD(Note 2)	200	mW
Channel temperature		Tch	150	°C
Storage temperature		Tstg	-55~+150	°C

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

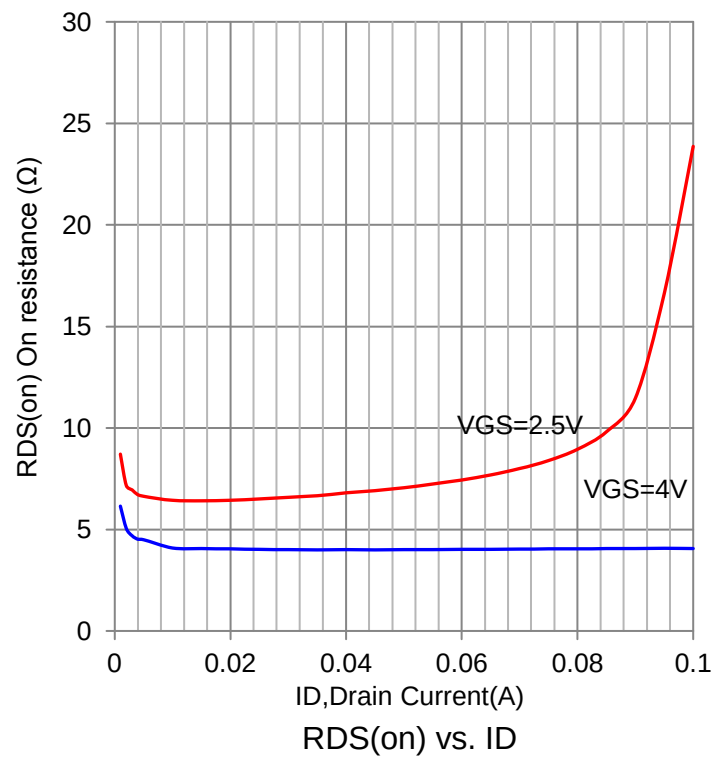
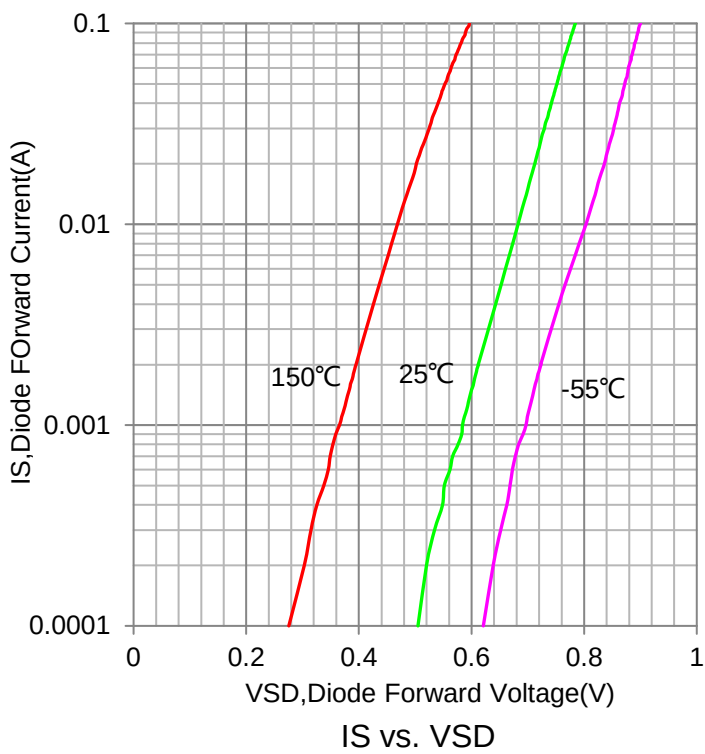
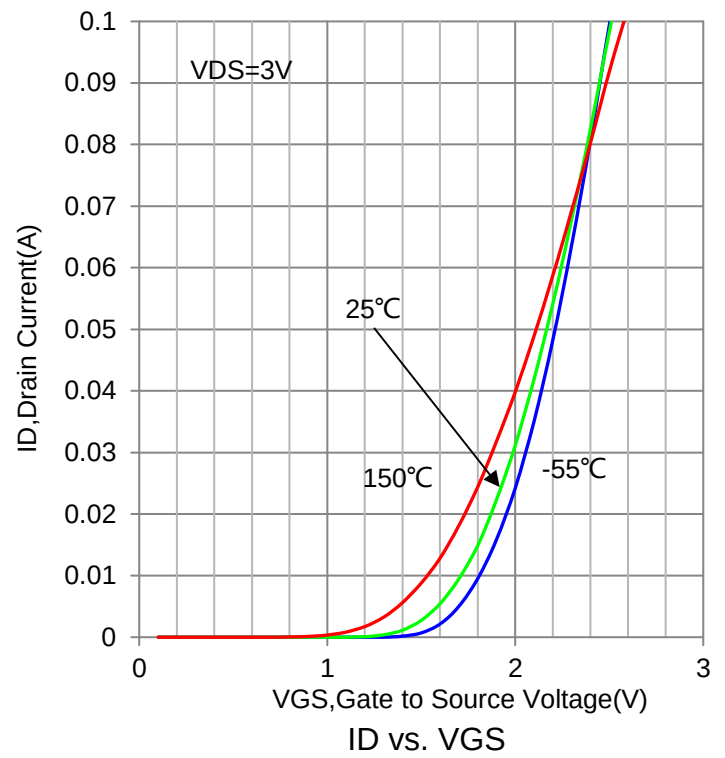
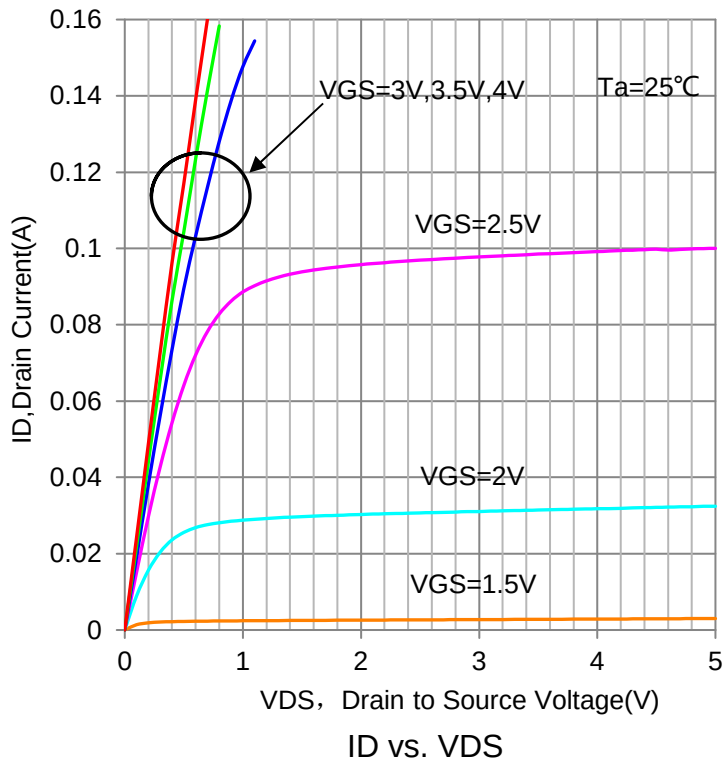
2 With each pin mounted on the recommended lands.



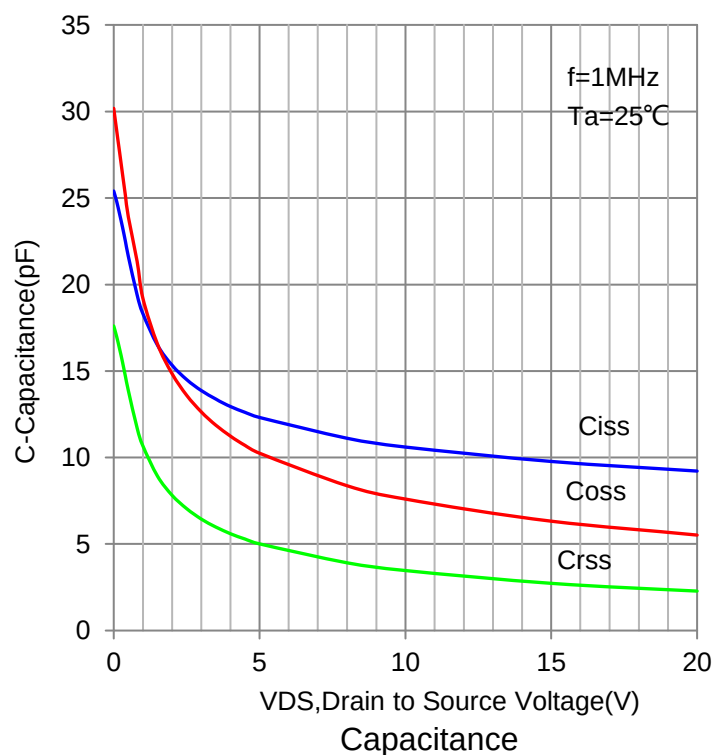
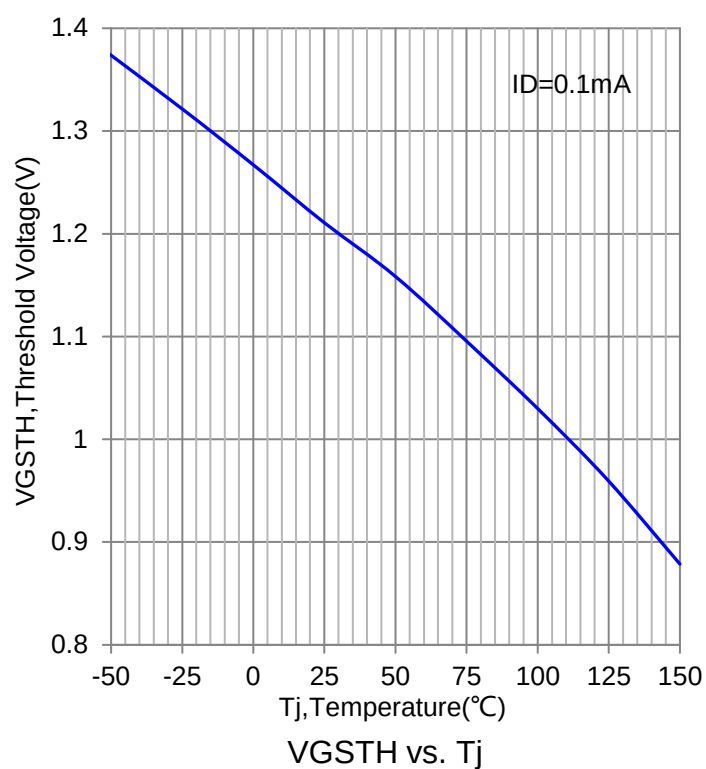
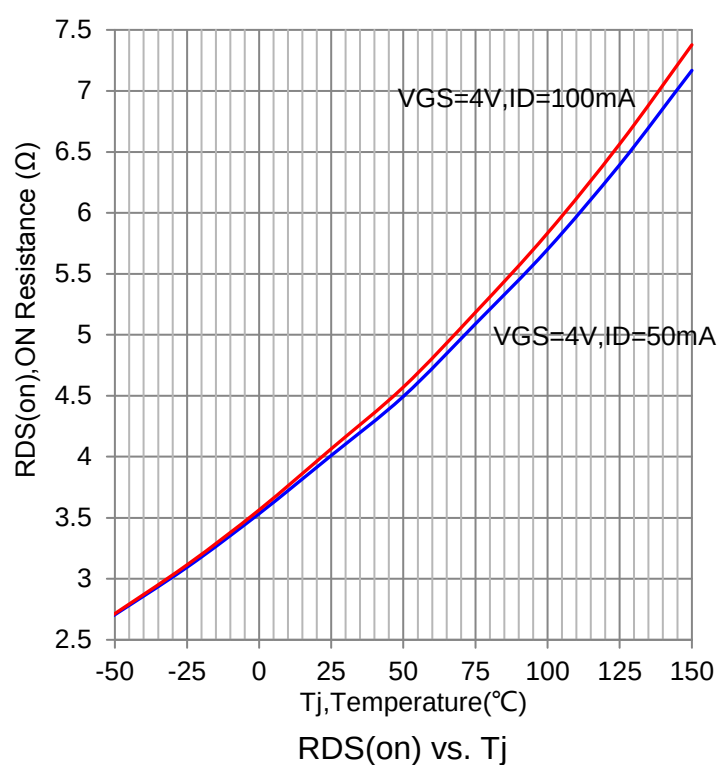
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Gate-source leakage (VGS = ±20V, VDS = 0V)	IGSS	-	-	±1	μA
Drain-Source Breakdown Voltage (VGS = 0, ID = 10μA)	VBRDSS	30	-	-	V
Zero Gate Voltage Drain Current (VGS = 0, VDS = 30 V)	IDSS			1	μA
Gate Threshold Voltage (VDS = 3V, ID = 100μA)	VGS(th)	0.8	-	1.5	V
Static Drain-Source On-State Resistance (ID = 10mA, VGS = 4V) (ID = 1mA, VGS = 2.5V)	RDS(on)	- -	5 7	8 13	Ω
Forward transfer admittance (VDS = 3V, ID = 10mA)	Yfs	20	-	-	mS
Input Capacitance (VDS = 5 V, VGS = 0, f = 1.0 MHz)	Ciss	-	13	-	pF
Output Capacitance (VDS = 5 V, VGS = 0, f = 1.0 MHz)	Coss	-	9	-	pF
Reverse Transfer Capacitance (VDS = 5 V, VGS = 0, f = 1.0 MHz)	Crss	-	4	-	pF
Turn-On Delay Time	(VDD =5 V, ID = 10mA,VGS=5V,RL = 500 Ω ,RG = 10 Ω)	td(on)	-	15	ns
Rise Time		tr	-	35	
Turn-Off Delay Time		td(off)	-	80	
Fall Time		tf	-	80	

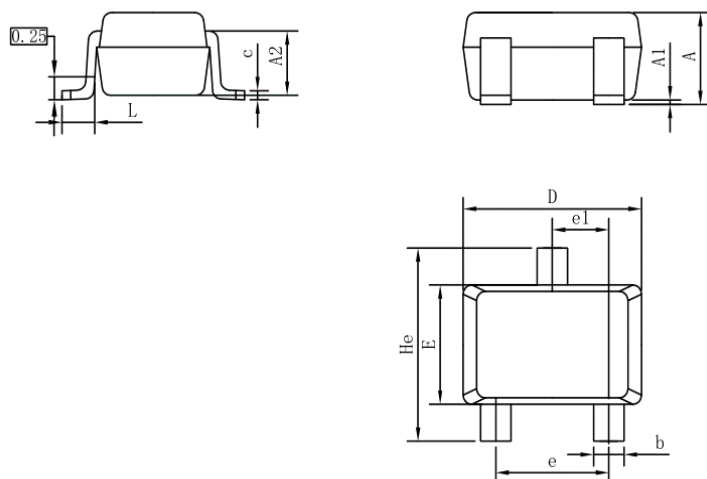
5.ELECTRICAL CHARACTERISTICS CURVES



5.ELECTRICAL CHARACTERISTICS CURVES(Con.)

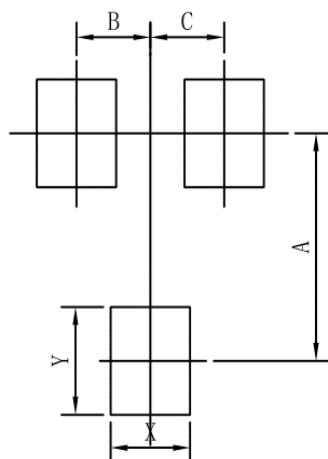


6.OUTLINE AND DIMENSIONS



SC70			
DIM	MIN	NOR	MAX
A	0.80	0.95	1.00
A1	0.00	0.05	0.10
A2	0.7 REF		
b	0.30	0.35	0.40
c	0.10	0.15	0.25
D	1.80	2.05	2.20
E	1.15	1.30	1.35
e	1.20	1.30	1.40
e1	0.65 BSC		
L	0.20	0.35	0.56
He	2.00	2.10	2.40
ALL Dimension in mm			

7.SOLDERING FOOTPRINT



SC70	
DIM	(mm)
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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