

L2SK3018WT1G

S-L2SK3018WT1G

N-channel MOSFET

100 mA, 30 V

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- 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

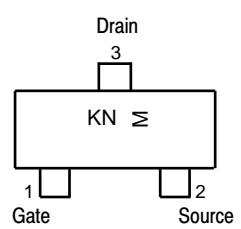
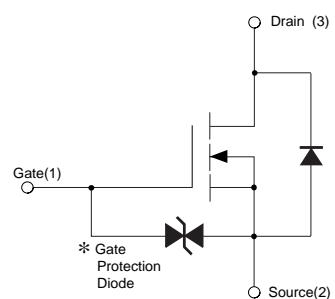
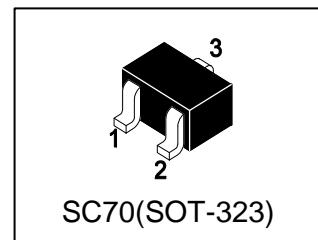
Device	Marking	Shipping
L2SK3018WT1G	KN	3000/Tape&Reel
L2SK3018WT3G	KN	10000/Tape&Reel

3. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

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 ($T_C=25^\circ\text{C}$)		PD(Note 2)	200	mW
Channel temperature		Tch	150	°C
Storage temperature		Tstg	-55~+150	°C

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

2 With each pin mounted on the recommended lands.

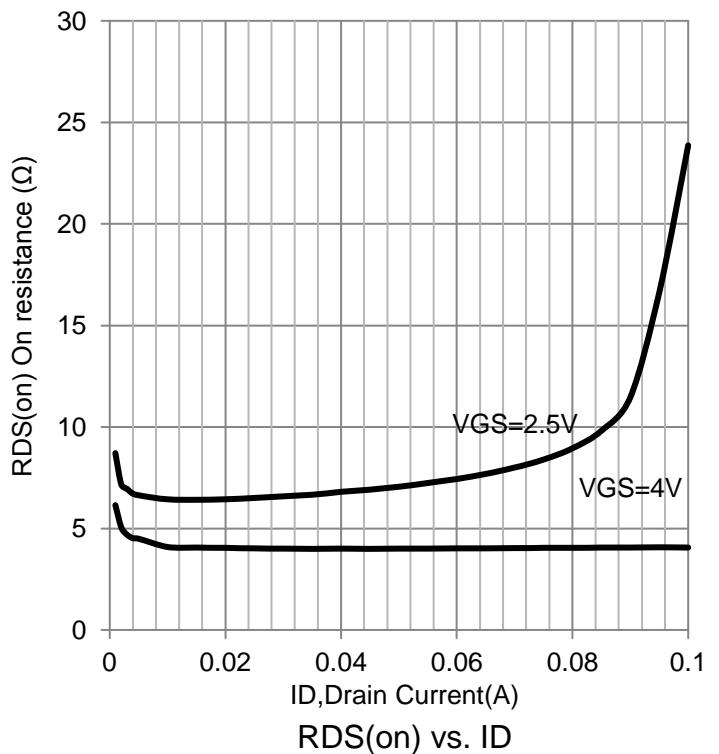
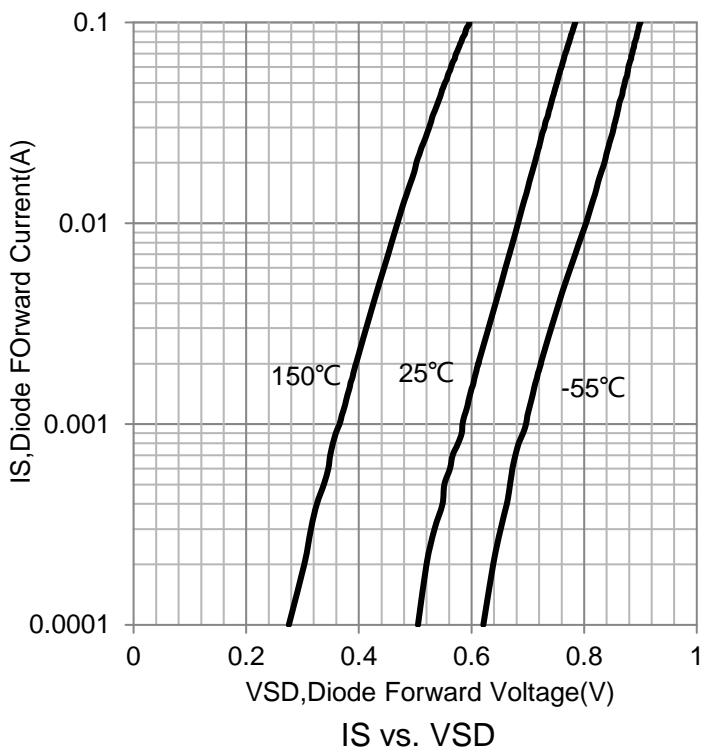
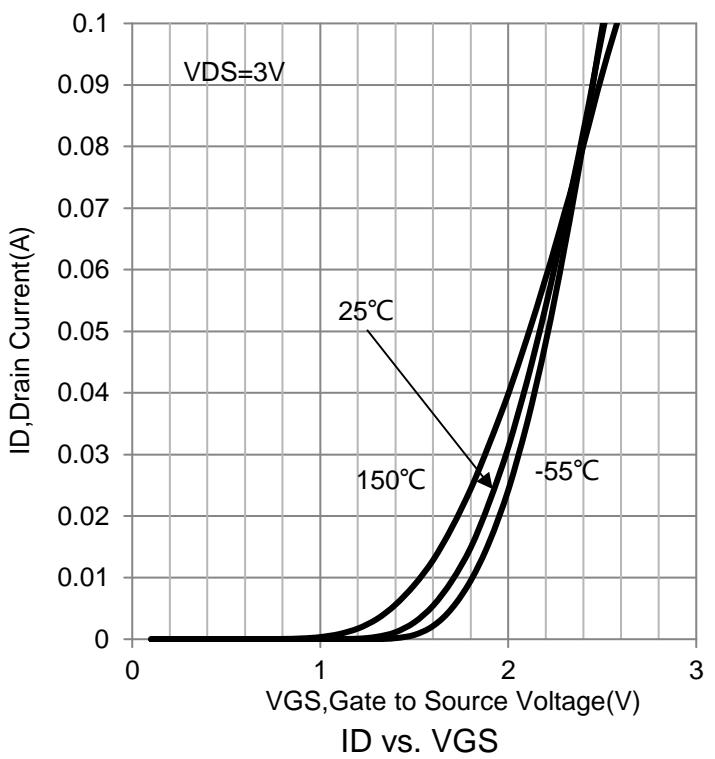
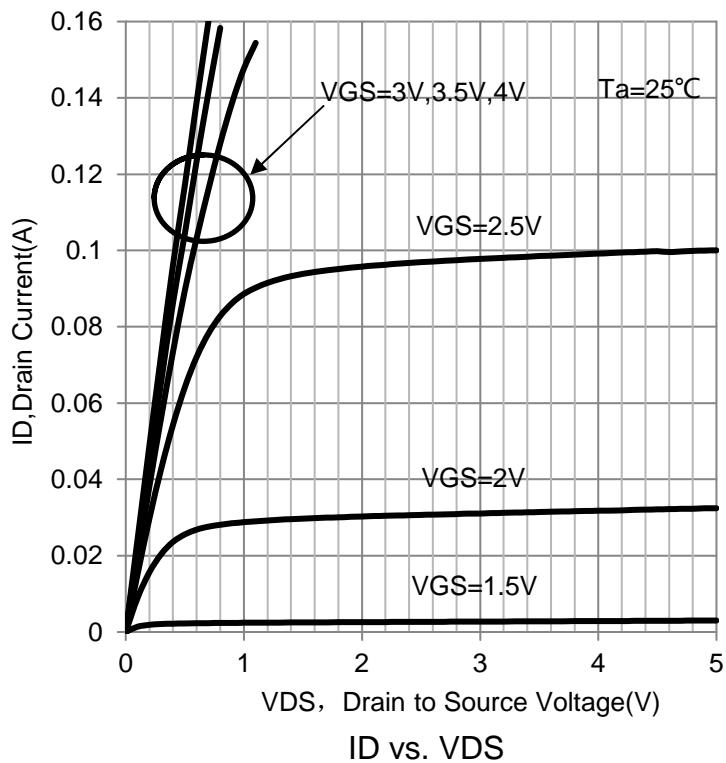


KN = Device Code
M = Month Code

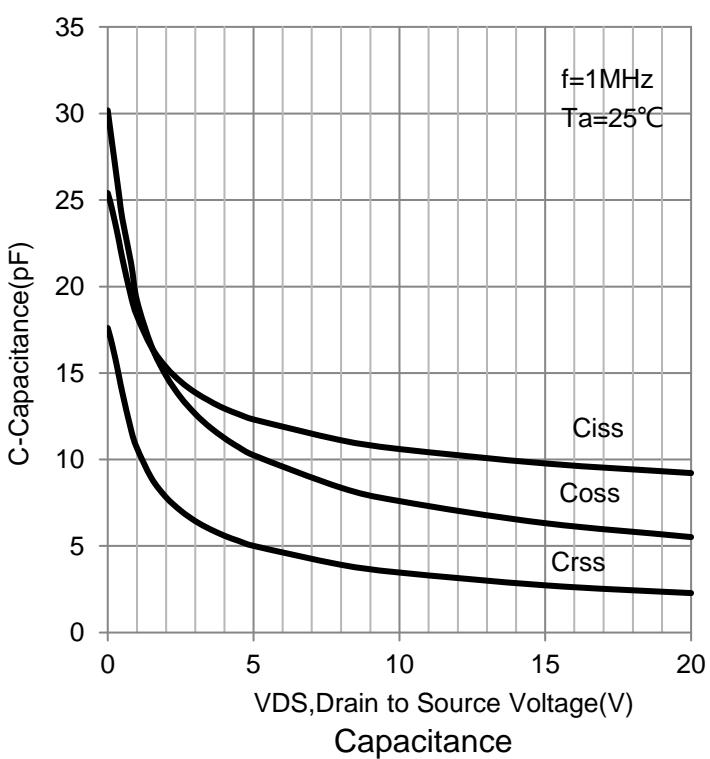
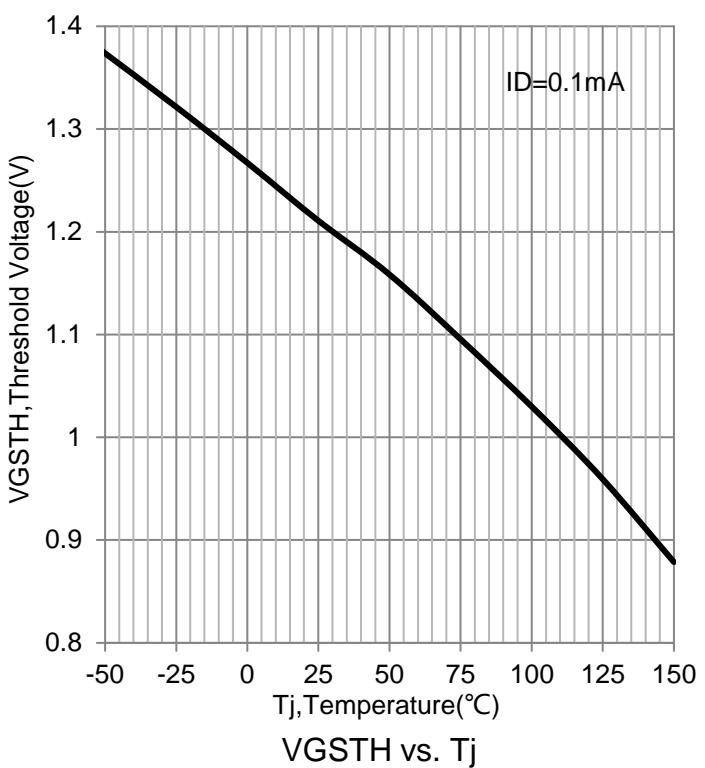
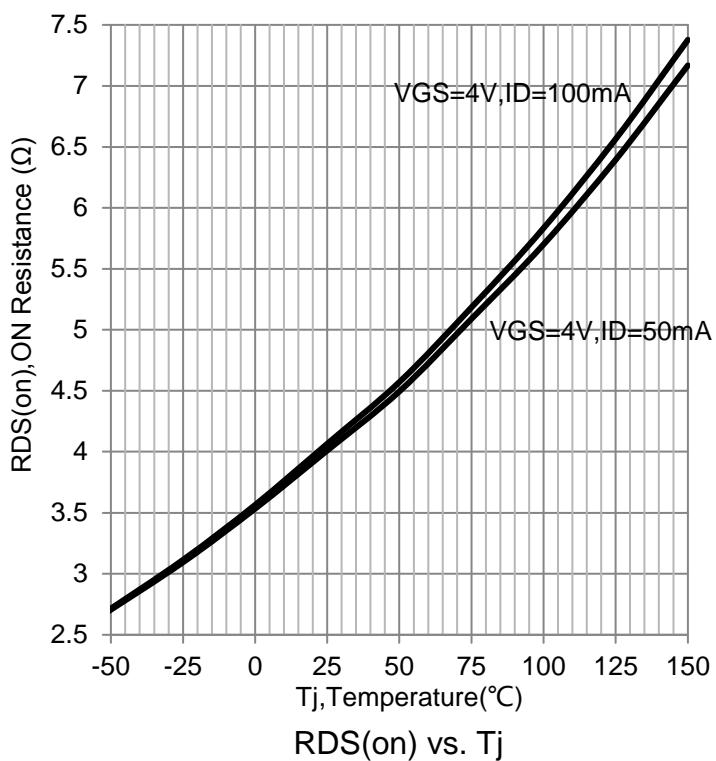
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

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	td(on)	-	15	-	ns
Rise Time	tr	-	35	-	
Turn–Off Delay Time	td(off)	-	80	-	
Fall Time	tf	-	80	-	

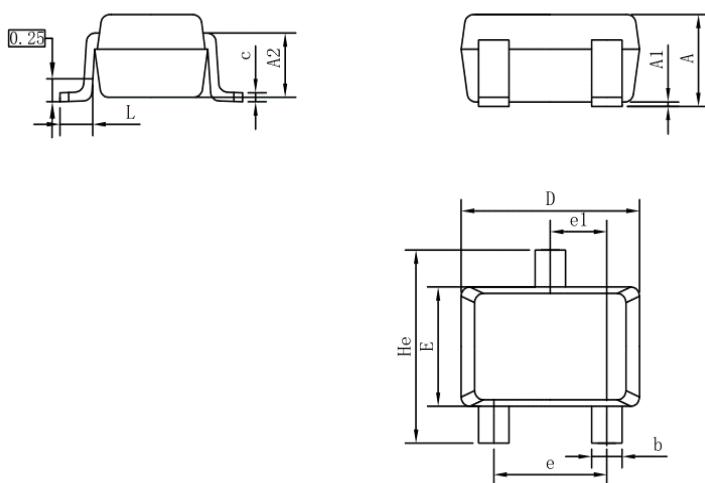
5.ELECTRICAL CHARACTERISTICS CURVES



5.ELECTRICAL CHARACTERISTICS CURVES(Con.)

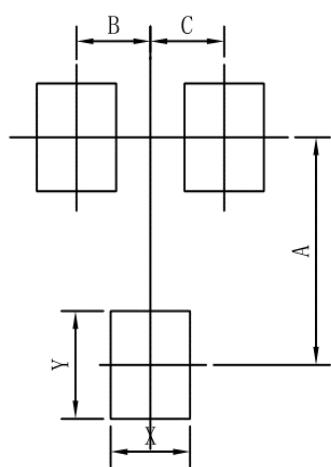


6.OUTLINE AND DIMENSIONS



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	MIN
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90