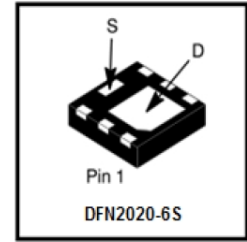


LN2320EDT2AG

N-Channel 20V (D-S) MOSFET , ESD Protection

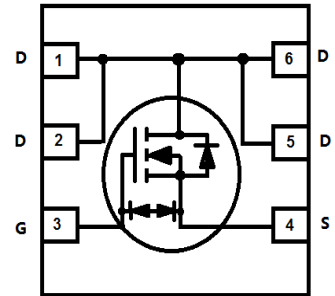
1. FEATURES

- Low Gate Threshold Voltage
- Fast Switching Speed
- ESD Protected Gate
- We declare that the material of product are Halogen Free and compliance with RoHS requirements.



2.APPLICATIONS

- Battery Management Application
- Power Management Functions
- DC-DC Converters



3. ORDERING INFORMATION

Device	Marking	Shipping
LN2320EDT2AG	ED	4000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25°C unless otherwise stated)

Parameter		Symbol	Limits	Unit
Drain-to-Source Voltage		VDSS	20	V
Gate-to-Source Voltage		VGS	±8	V
Avalanche Current		IAS	11	A
Avalanche energy L=0.1mH		EAS	6	mJ
Continuous Drain Current		ID	8	A
Pulsed Drain Current		IDM	26	A
Maximum Power Dissipation	TA =25°C	PD	1.4	W
	TA =70°C		0.9	
Operating Junction Temperature		TJ	-55 ~+150	°C
Thermal Resistance-Junction to Ambient(Note1)		RθJA	90	°C/W
Thermal Resistance-Junction to Case		RθJC	75	°C/W

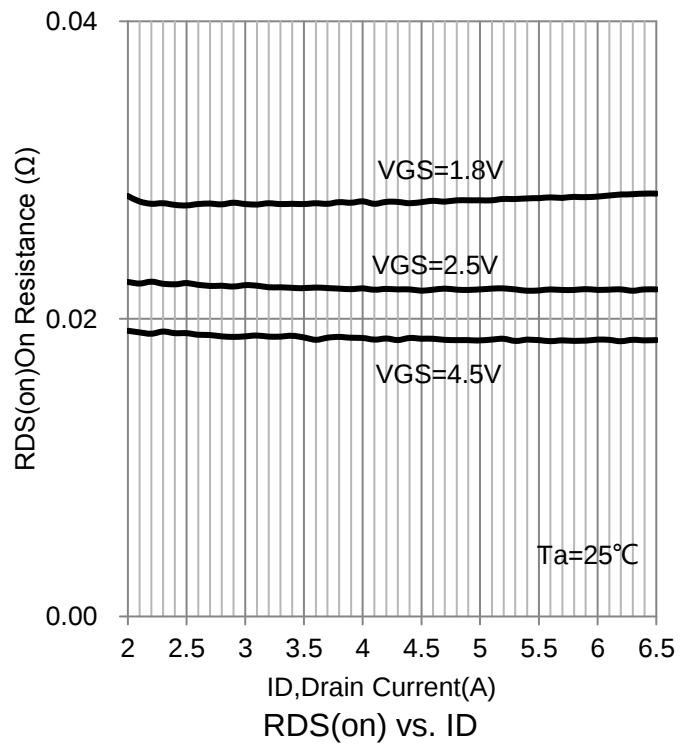
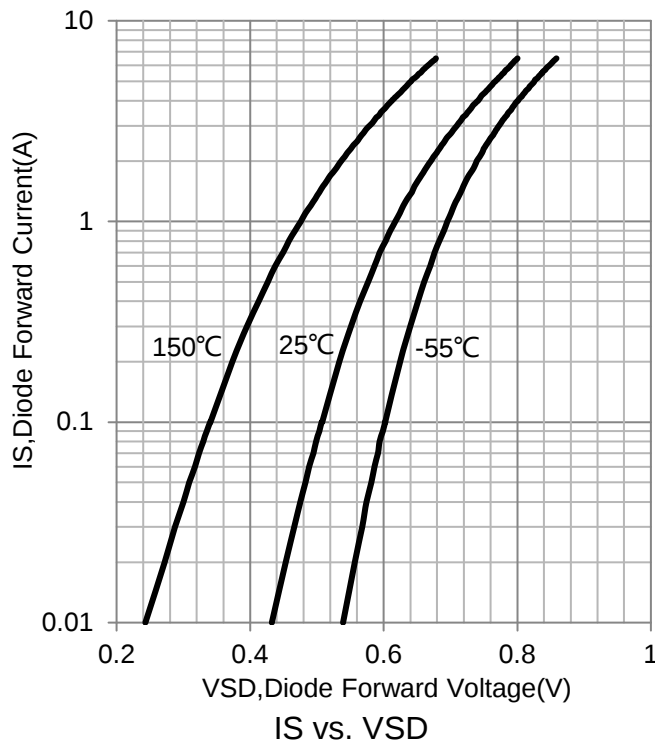
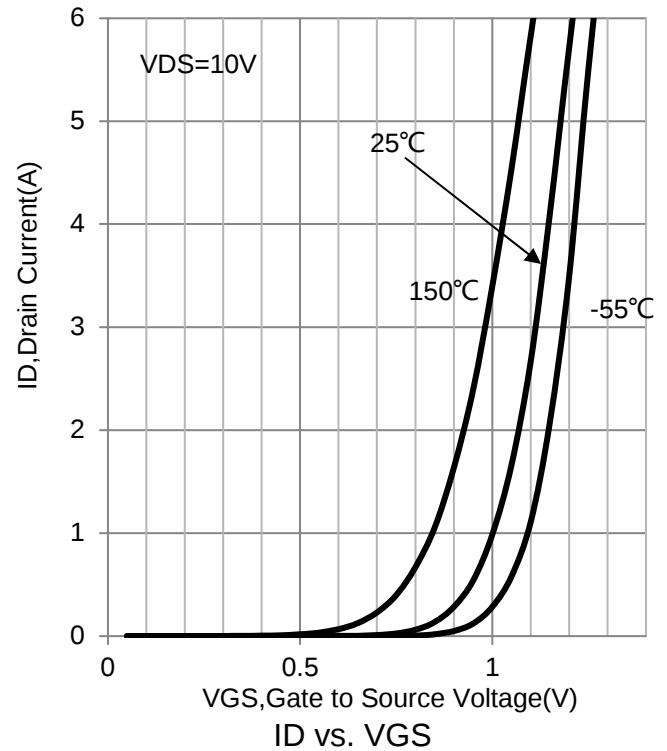
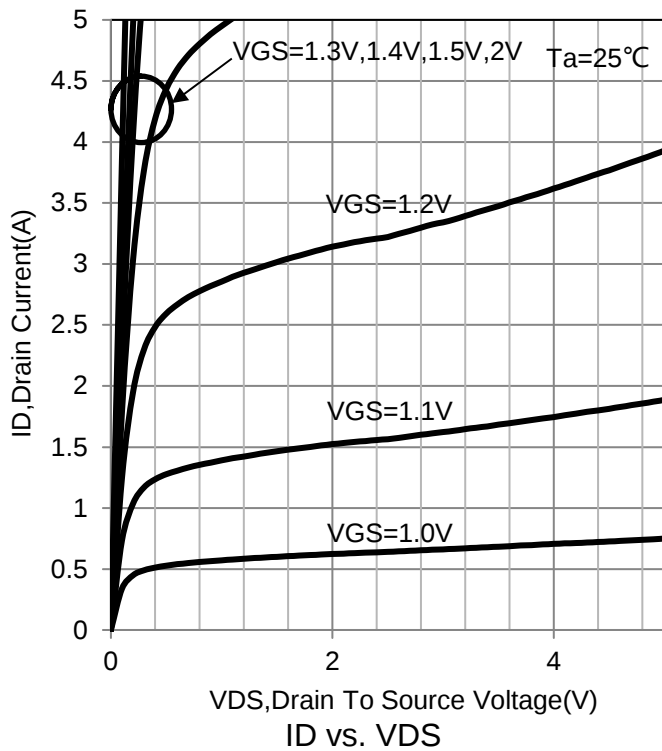
1. The device mounted on 1in² FR4 board with 2 oz copper

5. ELECTRICAL CHARACTERISTICS

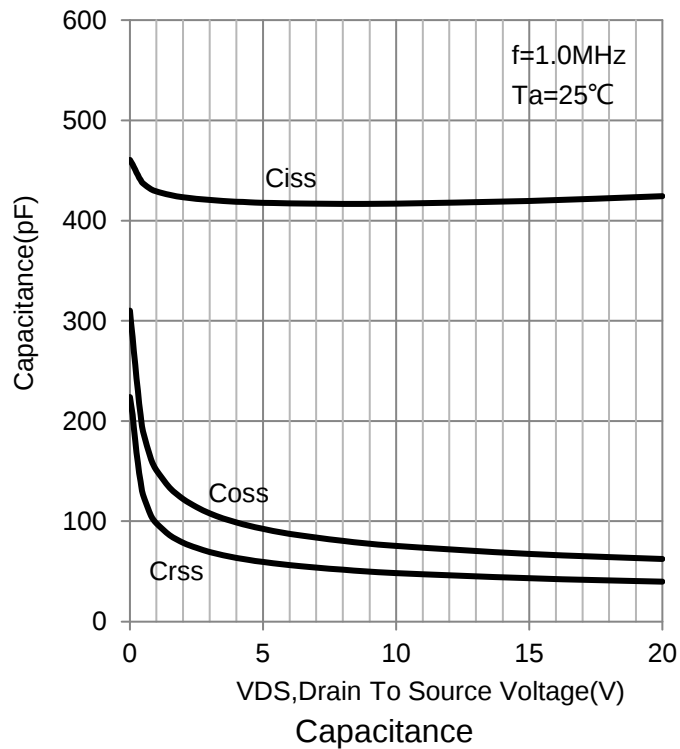
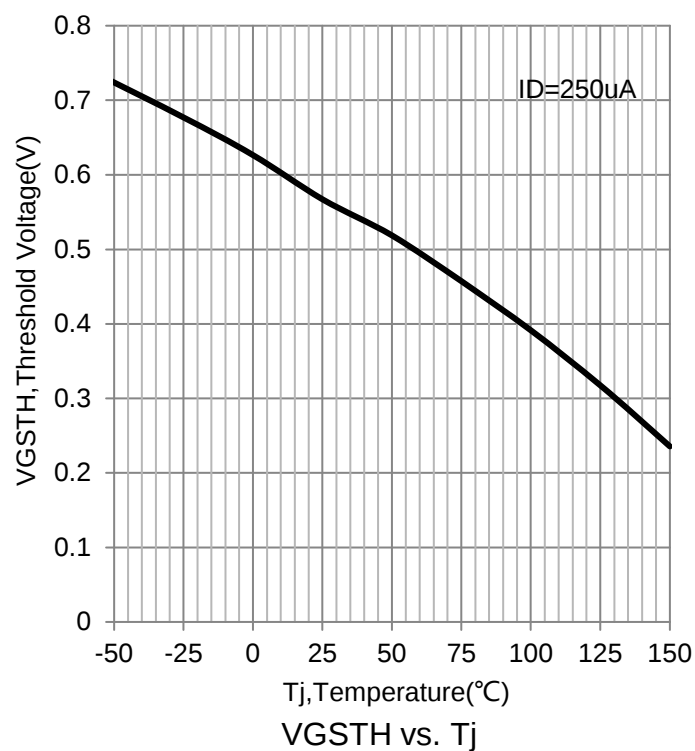
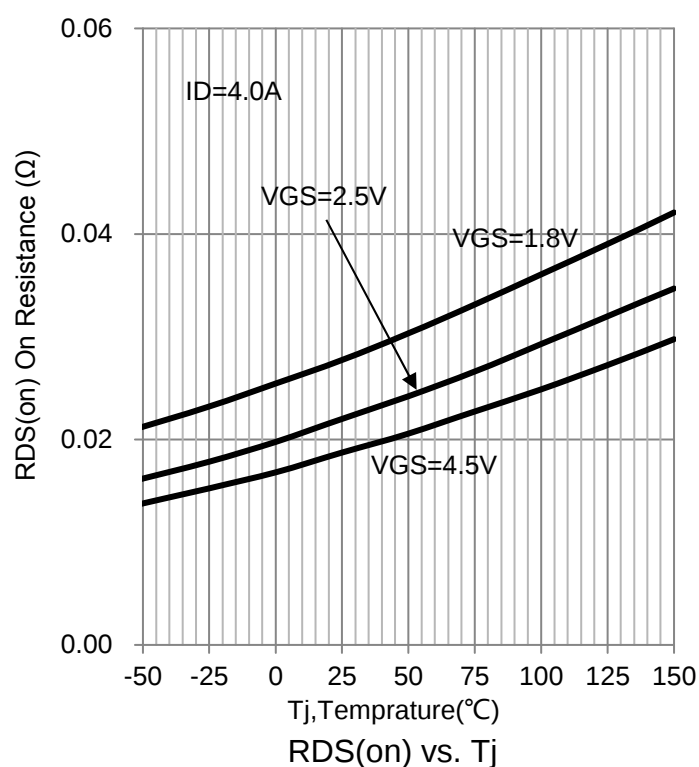
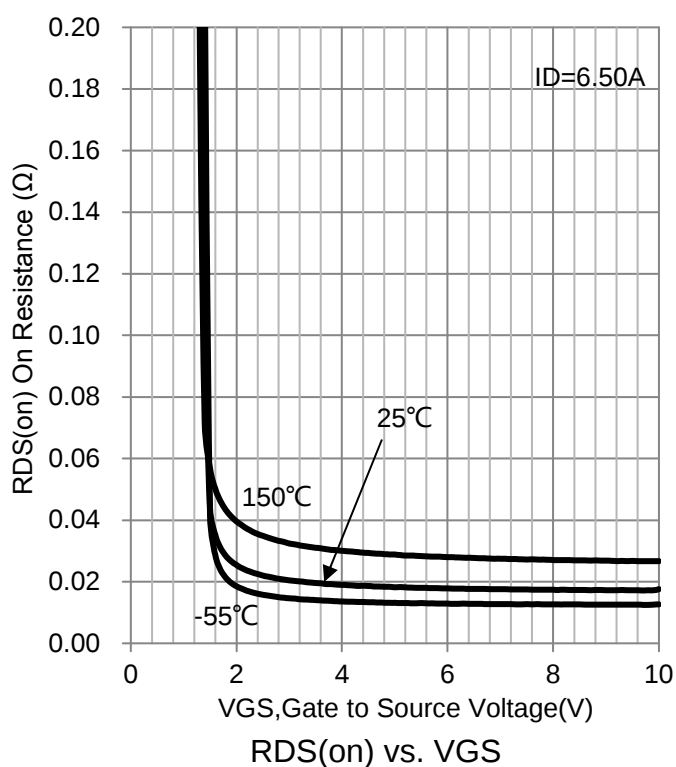
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Static					
Drain-Source Breakdown Voltage (VGS =0V, ID =250μA)	V(BR)DSS	20	-	-	V
Gate Threshold Voltage (VDS =VGS , ID =250μA)	VGS(th)	0.4	-	1	V
Gate Leakage Current (VDS =0V, VGS =±8V)	IGSS	-	-	±10	μA
Zero Gate Voltage Drain Current (VDS =20V, VGS =0V)	IDSS	-	-	1	μA
Drain-Source On-Resistance(Note 2) (VGS =4.5V, ID = 4A) (VGS =2.5V, ID = 4A) (VGS =1.8V, ID = 4A)	RDS(ON)	- - -	15 18 24	22 28 40	mΩ
Diode Forward Voltage (VGS = 0V, IS = 5A)	VSD	-	-	1	V
DYNAMIC					
Total Gate Charge	Qg	-	8	-	nC
Gate-Source Charge	Qgs	-	1.4	-	
Gate-Drain Charge	Qgd	-	1.5	-	
Input Capacitance	Ciss	-	425	-	pF
Output Capacitance	Coss	-	73	-	
Reverse Transfer Capacitance	Crss	-	48	-	
Turn-On Delay Time	td(on)	-	250	-	ns
Turn-On Rise Time	tr	-	420	-	
Turn-Off Delay Time	td(off)	-	3950	-	
Turn-Off Fall Time	tf	-	3700	-	

2. Pulse test; pulse width ≤ 300us, duty cycle ≤ 2%

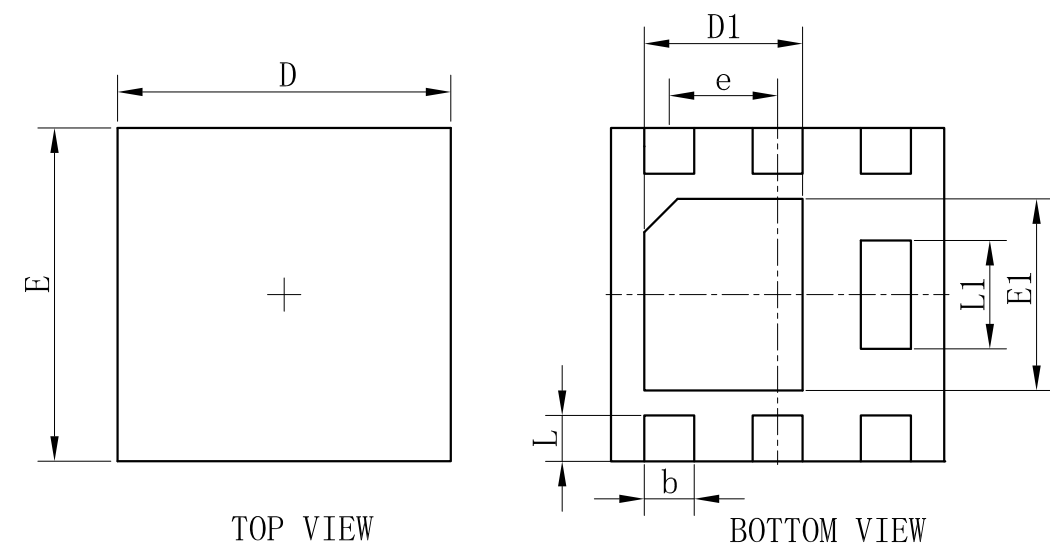
6.ELECTRICAL CHARACTERISTICS CURVES



6.ELECTRICAL CHARACTERISTICS CURVES(Con.)

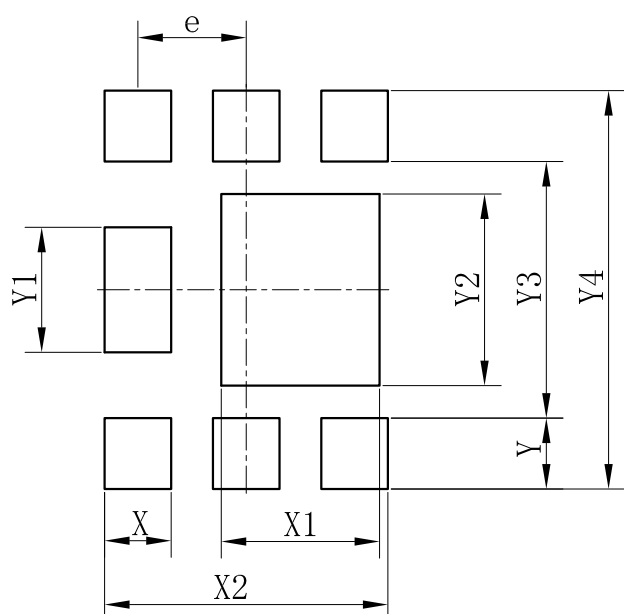


7.OUTLINE AND DIMENSIONS



DFN2020-6S			
DIM	MIN	NOR	MAX
A	0.60	0.65	0.70
A1	0.01	0.03	0.05
b	0.25	0.30	0.35
D	1.95	2.00	2.05
E	1.95	2.00	2.05
e	0.65TYP.		
L	0.23	0.28	0.33
L1	0.60	0.65	0.70
D1	0.90	0.95	1.00
E1	1.10	1.15	1.20
A3	0.152REF.		
All Dimensions in mm			

8.SOLDERING FOOTPRINT



DFN2020-6S	
DIM	(mm)
X	0.40
X1	0.95
X2	1.70
e	0.65
Y	0.425
Y1	0.75
Y2	1.15
Y3	1.54
Y4	2.39

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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