

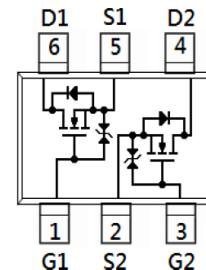
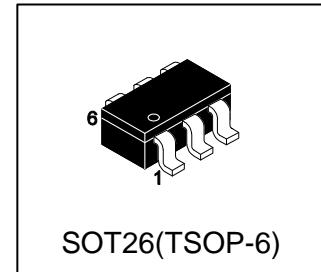
LDN3408ET1G

S-LDN3408ET1G

30V N-Channel Enhancement Mode MOSFET

1. FEATURES

- ESD Protected 2KV HBM
- RDS(ON)<75mΩ @VGS=10V, ID=3A
- RDS(ON)<90mΩ @VGS=4.5V, ID=2A
- RDS(ON)<150mΩ @ VGS=2.5V, ID=1A
- 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.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LDN3408ET1G	N8	3000/Tape&Reel
LDN3408ET3G	N8	10000/Tape&Reel

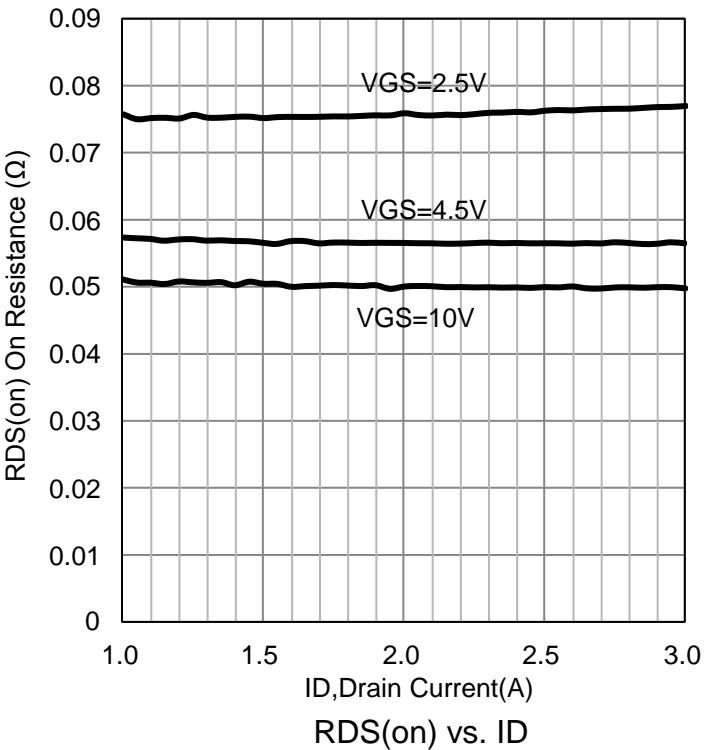
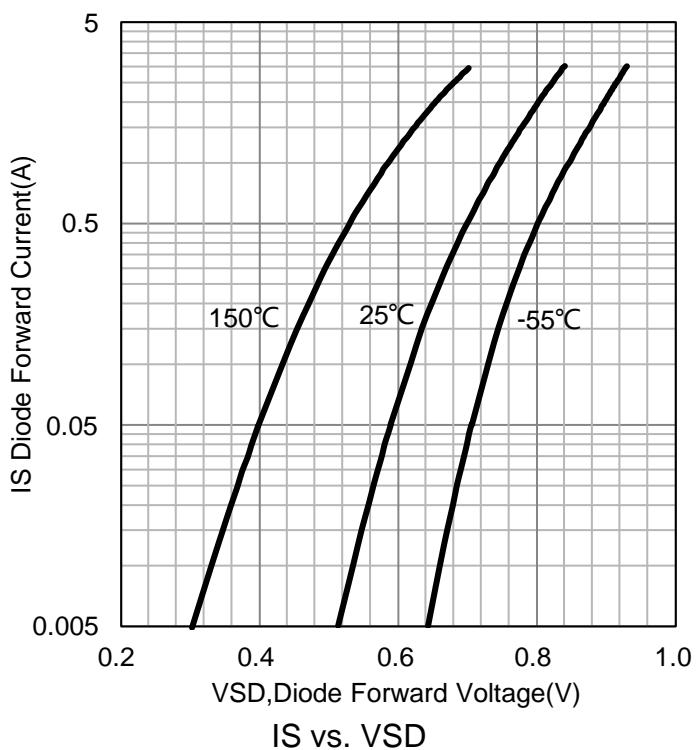
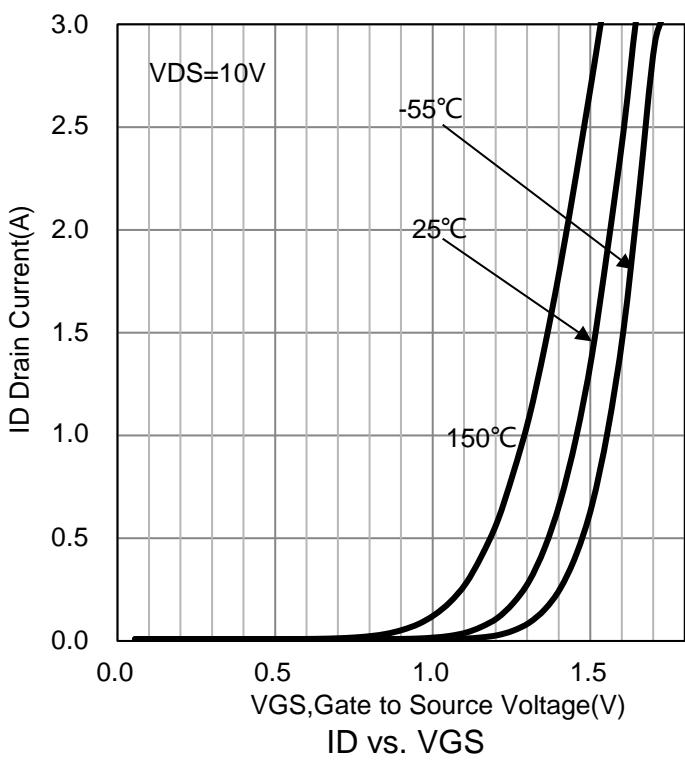
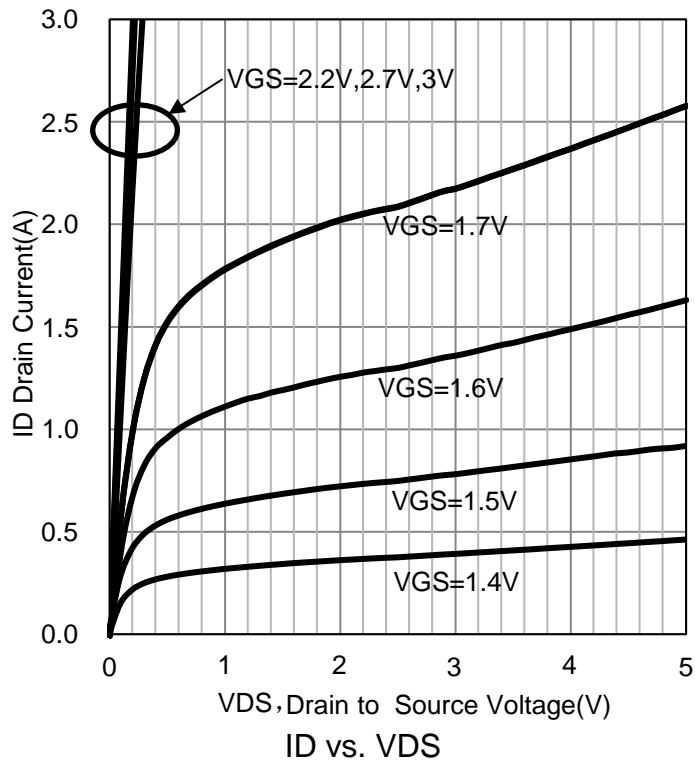
3. Absolute Maximum Ratings (TA =25 °C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Drain-Source Voltage	VDS	30	V
Gate-Source Voltage	VGS	±12	V
Drain Current-Continuous	ID	2	A
Drain Current-Pulsed	IDM	8	A
Power Dissipation	PD	1.25	W
		10	mW/°C
Operating Junction and Storage Temperature Range	TJ ,TSTG	-55~+150	°C
Typical Thermal resistance-Junction to Ambient	RθJA	100	°C/W

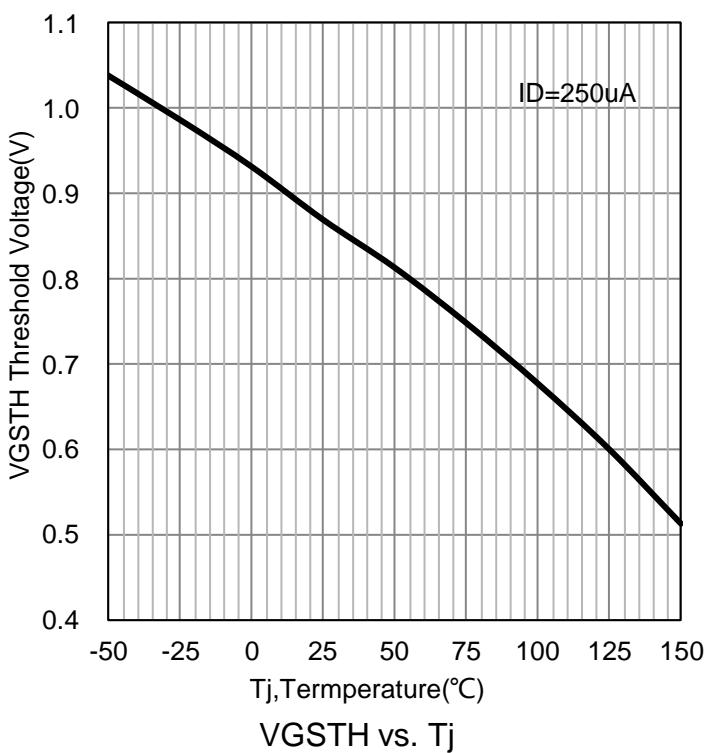
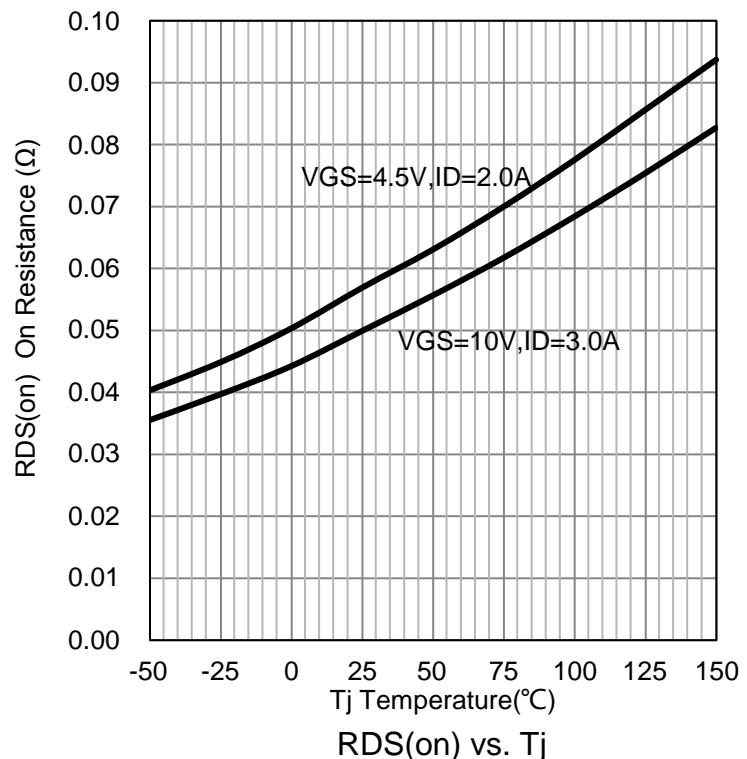
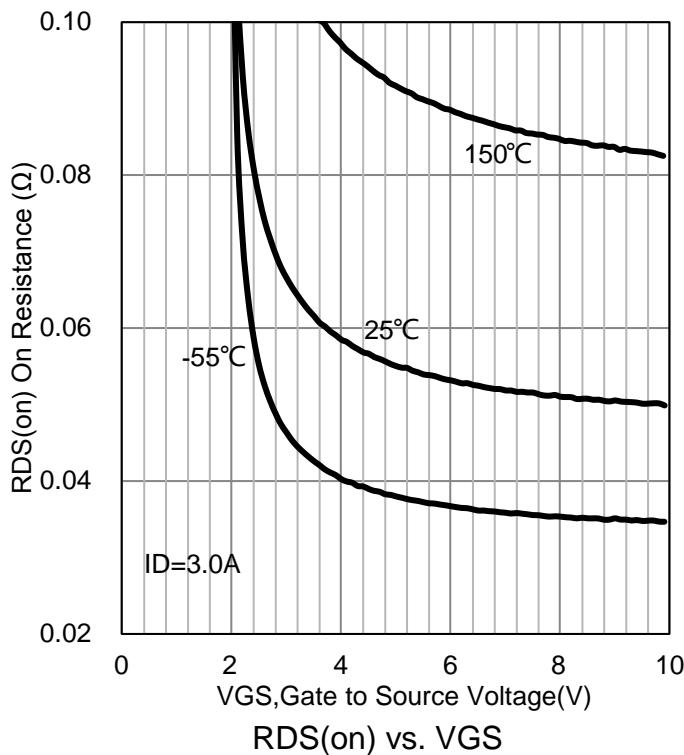
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Static					
Drain-Source Breakdown Voltage (VGS =0V ID =250μA)	BVDSS	30	-	-	V
Gate Threshold Voltage (VDS =VGS ,ID =250μA)	VGS(th)	0.6	-	1.4	V
Drain-Source On-State Resistance (VGS =10V, ID =3A) (VGS =4.5V, ID =2A) (VGS =2.5V, ID =1A)	RDS(ON)	- - -	60 70 110	75 90 150	mΩ
Zero Gate Voltage Drain Current (VDS =30V,VGS =0V)	IDSS	-	0.01	1	μA
Gate-Body Leakage Current (VGS =±12V,VDS =0V)	IGSS	-	1.4	±10	μA
Dynamic					
Total Gate Charge	(VDS =15V, ID =2.1A,VGS =4.5V)	Qg	-	4.7	-
Gate-Source Charge		Qgs	-	1.9	-
Gate-Drain Charge		Qgd	-	1.6	-
Input Capacitance	(VDS =15V, VGS =0V,f=1.0MHZ)	Clss	-	247	-
Output Capacitance		Coss	-	33	-
Reverse Transfer Capacitance		Crss	-	5	-
Turn-on Delay Time	(VDD =15V, ID =1A,VGS =4.5V,RG=6Ω)	td(on)	-	98	-
Turn-on Rise Time		tr	-	128	-
Turn-Off Delay Time		td(off)	-	2600	-
Turn-Off Fall Time		tf	-	677	-
Drain-Source Diode Characteristics					
Diode Forward Voltage (VGS =0V,IS =1.0A)	VSD	-	0.8	1.2	V
Diode Forward Current	IS	-	-	1.8	A

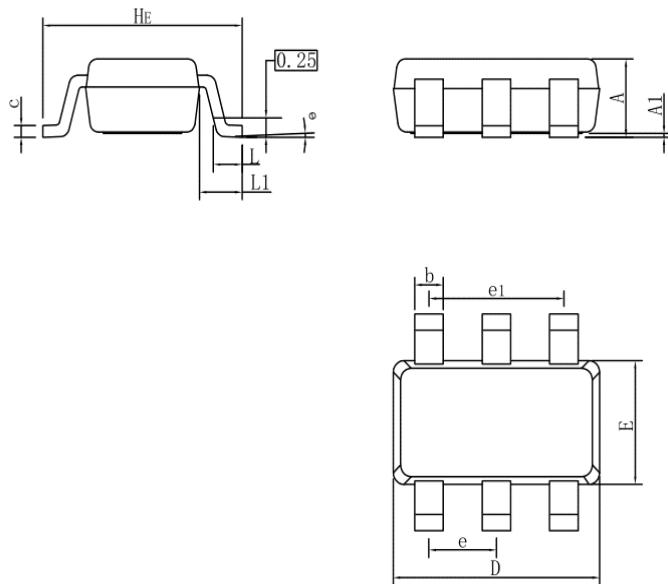
5.ELECTRICAL CHARACTERISTICS CURVES



5.ELECTRICAL CHARACTERISTICS CURVES (Con.)

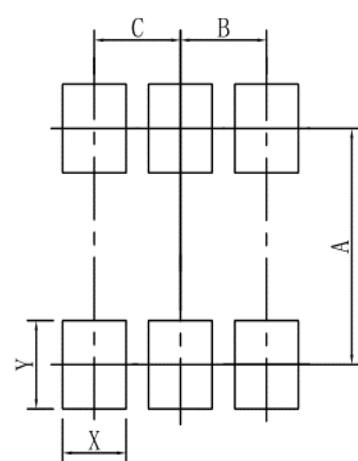


6.OUTLINE AND DIMENSIONS



SOT26			
DIM	MIN	NOR	MAX
A	0.90	1.00	1.10
A1	0.01	0.06	0.10
b	0.30	0.40	0.50
c	0.10	0.17	0.20
D	2.80	2.90	3.00
E	1.50	1.60	1.70
e	0.85	0.95	1.05
e1	1.80	1.90	2.00
L	0.20	0.40	0.60
L1	0.60REF		
HE	2.60	2.80	3.00
θ	0 °	-	10 °

7.SOLDERING FOOTPRINT



SOT26	
DIM	(mm)
X	0.70
Y	0.90
A	2.40
B	0.95
C	0.95