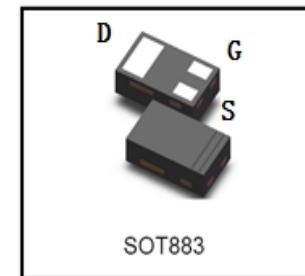


# LP0404N3T5G

20V, P-Channel (D-S) MOSFET

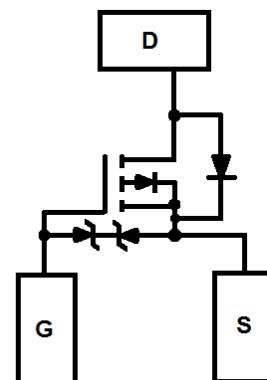


## 1. FEATURES

- VDS = -20V
- RDS(ON) ≤ 0.48Ω, VGS@-4.5V, IDS@-780mA
- RDS(ON) ≤ 0.67Ω, VGS@-2.5V, IDS@-660mA
- RDS(ON) ≤ 0.95Ω, VGS@-1.8V, IDS@-100mA
- RDS(ON) ≤ 2.2Ω, VGS@-1.5V, IDS@-100mA
- Super high density cell design for extremely low RDS(ON).
- Exceptional on-resistance and maximum DC current capability.
- 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. APPLICATIONS

- Power Management in Note book
- Portable Equipment
- Battery Powered System



## 3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LP0404N3T5G	T5	10000/Tape&Reel

## 4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Drain-to-Source Voltage	VDSS	-20	V
Gate-to-Source Voltage	VGS	±6	V
Drain Current (Note 1) Steady State	ID	-1.4	A

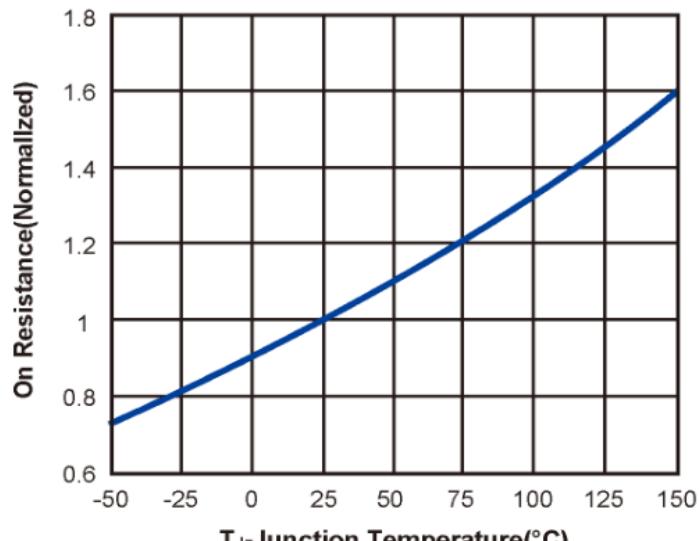
Note 1: Surface Mounted on 1" x 1" FR4 Board.

## 5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

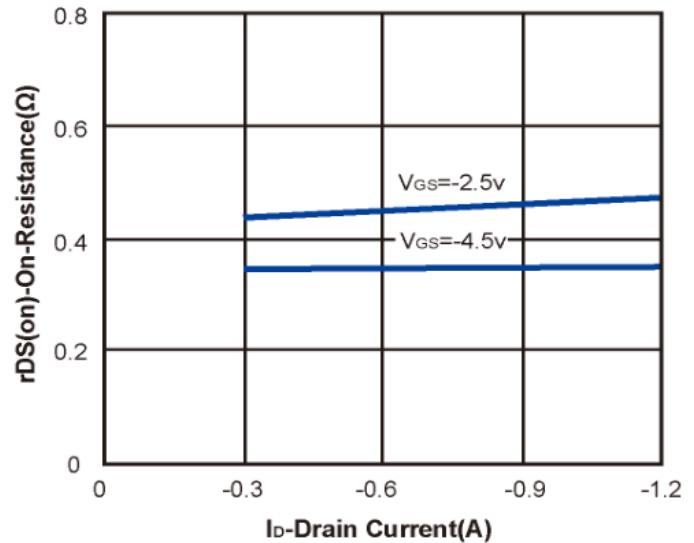
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Static					
Drain-Source Breakdown Voltage (VGS = 0V, ID = -250μA)	V(BR)DSS	-20	-	-	V
Gate Threshold Voltage (VDS = VGS , ID = -250μA )	VGS(th)	-0.4	-	-1.2	V
Gate Leakage Current (VDS =0V, VGS =±4.5V )	IGSS	-	-	±10	μA
Zero Gate Voltage Drain Current (VDS =-16V, VGS =0V )	IDSS	-	-	-1	μA
Drain-Source On-Resistance (VGS=-4.5V, ID=-780mA)	RDS(ON)	-	-	0.48	Ω
Drain-Source On-Resistance (VGS=-2.5V, ID=-660mA)		-	-	0.67	
Drain-Source On-Resistance (VGS=-1.8V, ID=-100mA)		-	-	0.95	
Drain-Source On-Resistance (VGS=-1.5V, ID=-100mA)		-	-	2.2	
Diode Forward Voltage (IS =-350mA, VGS =0V)	VSD	-	-	-1.2	V
Dynamic					
Total Gate Charge	(VDS =-16V, VGS =-4.5V, ID =-200mA)	Qg	-	2.8	-
Gate-Source Charge		Qgs	-	2.1	-
Gate-Drain Charge		Qgd	-	0.5	-
Turn-On Delay Time	(VDD =-10V, RL =50Ω, VGEN =- 5V, RG =10Ω, ID =-200mA)	td(on)	-	51.3	-
Rise Time		tr	-	24.2	-
Turn-Off Delay Time		td(off)	-	246	-
Fall Time		tf	-	81.2	-
Input Capacitance	(VDS = -16 V, VGS = 0 V, f = 1 MHz)	Ciss	-	152	-
Output Capacitance		Coss	-	18.5	-
Reverse Transfer Capacitance		Crss	-	6	-

Note 2: Pulse test; pulse width ≤ 300μs, duty cycle≤ 2%.

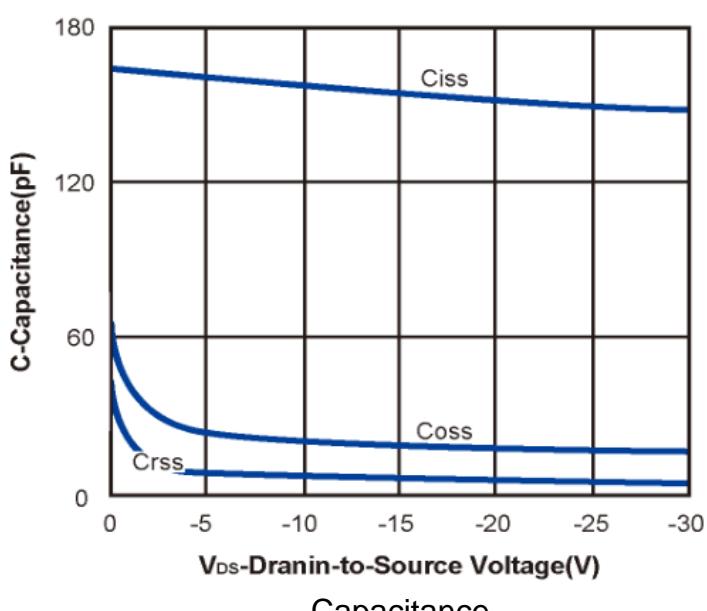
## 6. ELECTRICAL CHARACTERISTICS CURVES



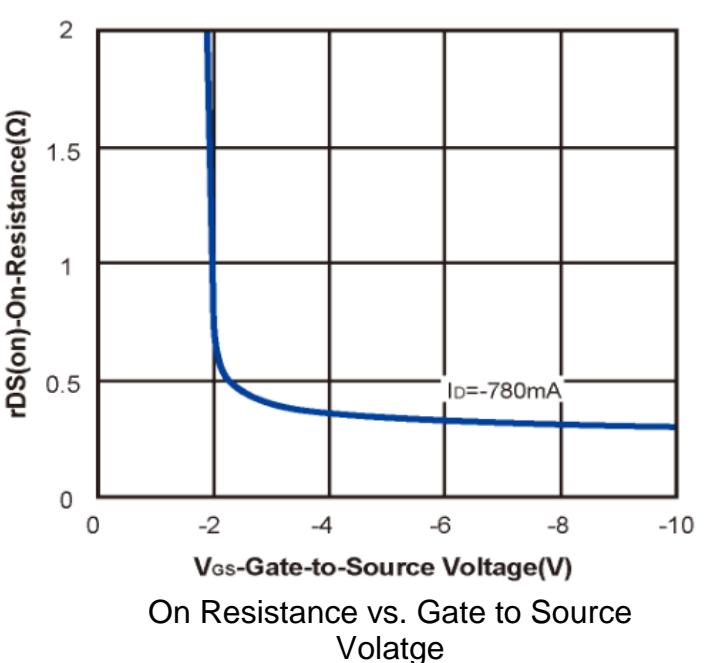
On Resistance vs. Junction Temperature



On Resistance vs. Drain Current

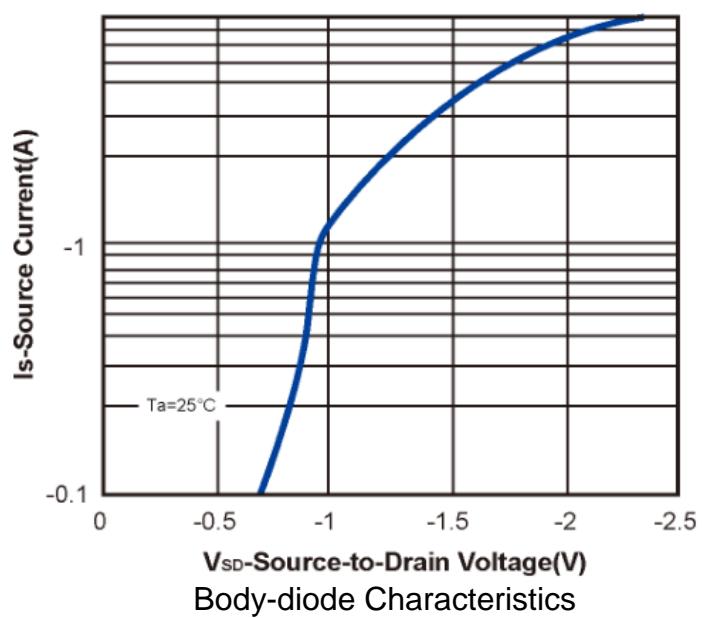
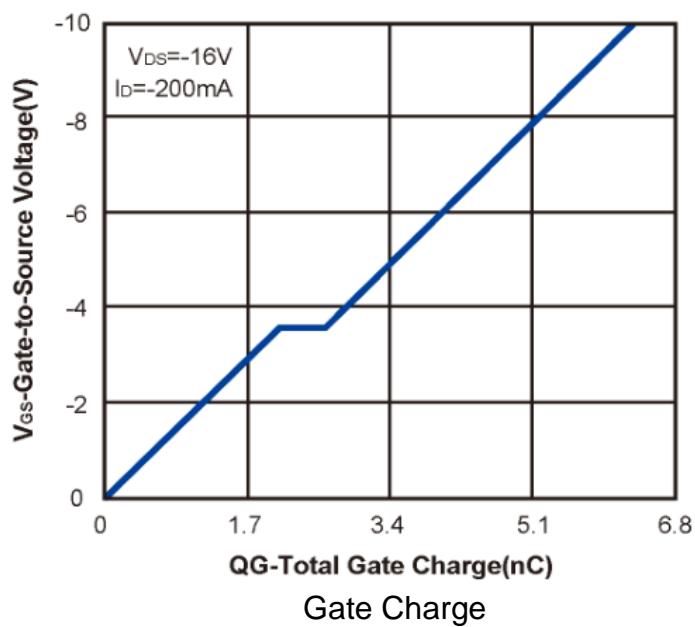
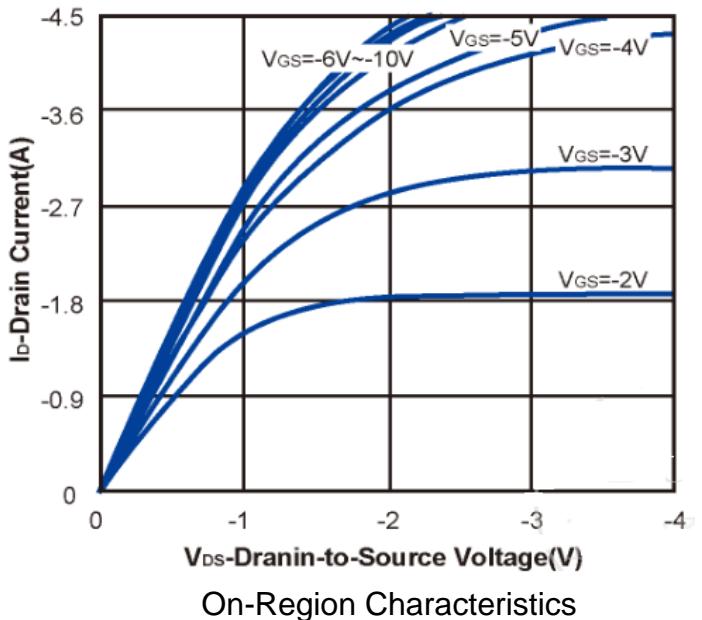
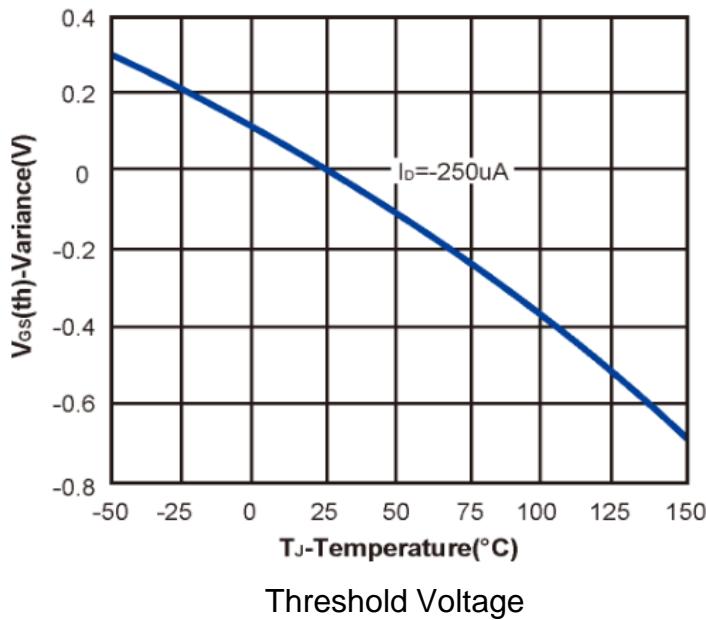


Capacitance

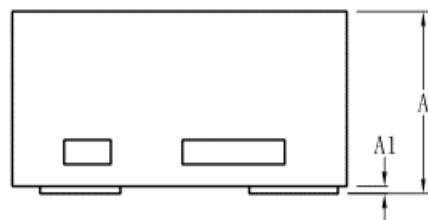
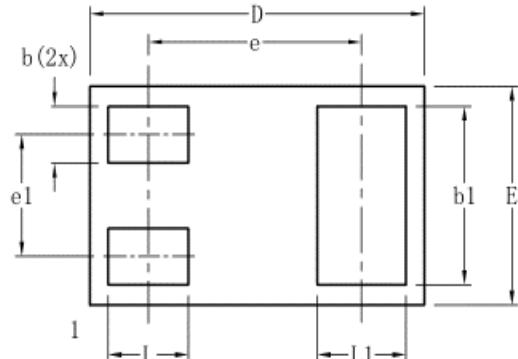


On Resistance vs. Gate to Source Volatge

## 6. ELECTRICAL CHARACTERISTICS CURVES(Con.)



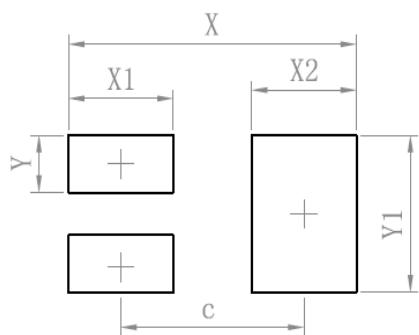
## 7. OUTLINE AND DIMENSIONS



SOT883			
DIM	MIN	TYP	MAX
D	1.05	1.00	0.95
E	0.65	0.60	0.50
e	-	0.64	-
e1	-	0.34	-
L	0.19	0.24	0.29
L1	0.22	0.27	0.32
b	0.10	0.15	0.20
b1	0.44	0.49	0.54
A	0.43	0.48	0.53
A1	0	-	0.05

All Dimensions in mm

## 8. SOLDERING FOOTPRINT



Dimensions	(mm)
c	0.70
X	1.10
X1	0.40
X2	0.40
Y	0.20
Y1	0.55

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