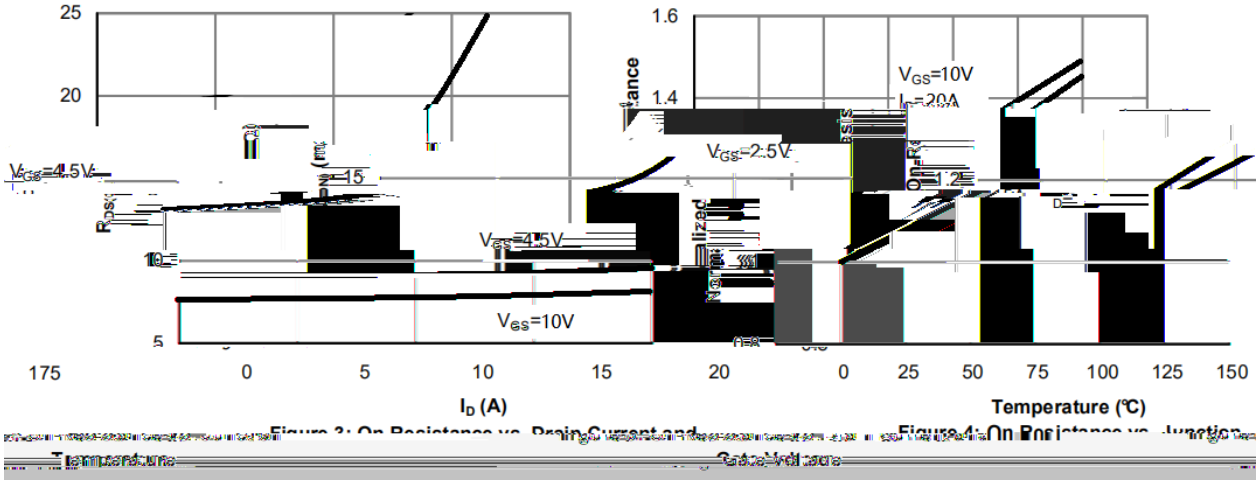
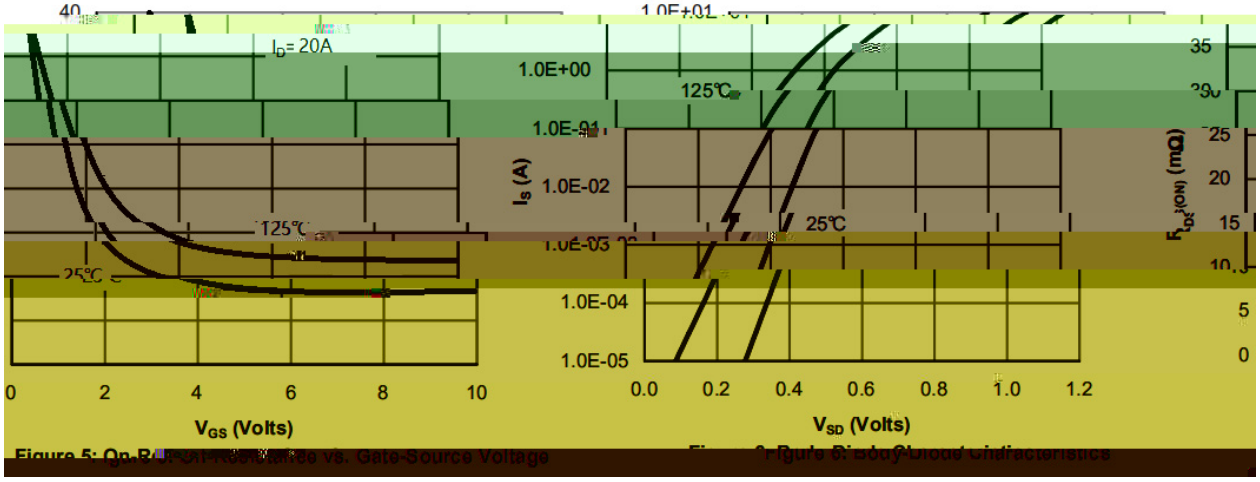
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	20	V
Drain Current	I_D(Tc=25)	8	A
	V_{GS}	±12	V
	I_{AS}	12.5	A
y	E_{AS}	111	mJ
	P_D(Tc=25)	2.8	W
	T_j	150	
	T_{stg}	-55 150	
t ≤ 10s	$R_{\theta JA}$	45	/W
Steady-State	$R_{\theta JA}$	80	

Symbol	Test Conditions		Min	Typ	Max	Unit
BV_{DSS}	V_{GS}=0V	I_D=250μA	20	25		V
I_{DSS}	V_{DS}=20V	V_{GS}=0V			1.0	μA
	V_{DS}=16V	T_J=150			50	
I_{GSS}	V_{GS}=±12V	V_{DS}=0V			±0.1	μA
$R_{DS(on)}$	V_{GS}=10V	I_D=8.0A		8	10	mΩ
	V_{GS}=4.5V	I_D=8.0A		9.5	11	mΩ
	V_{GS}=2.5V	I_D=8.0A		14	16	mΩ 56.7 323e0 T

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(4.5V)}$	V_{DS}=10V V_{GS}=4.5V I_D=12.0A		17.9		nC
Gate-Source Charge	Q_{gs}			1.5		


40
30
V_{DS}=5V
35
2.5


25
20
V_{GS}=4.5V
V_{GS}=10V
I_D=20A
V_{GS}=2.5V
1.6
1.4
1.2
175
0
5
10
15
20
0
25
50
75
100
125
150
I_D (A)
Temperature (℃)


I_D= 20A
125℃
25℃
1.0E+00
1.0E-01
1.0E-02
1.0E-03
1.0E-04
1.0E-05
I_S (A)
0
2
4
6
8
10
0.0
0.2
0.4
0.6
0.8
1.0
1.2
V_{GS} (Volts)
V_{SD} (Volts)
35
25
20
15
5
0

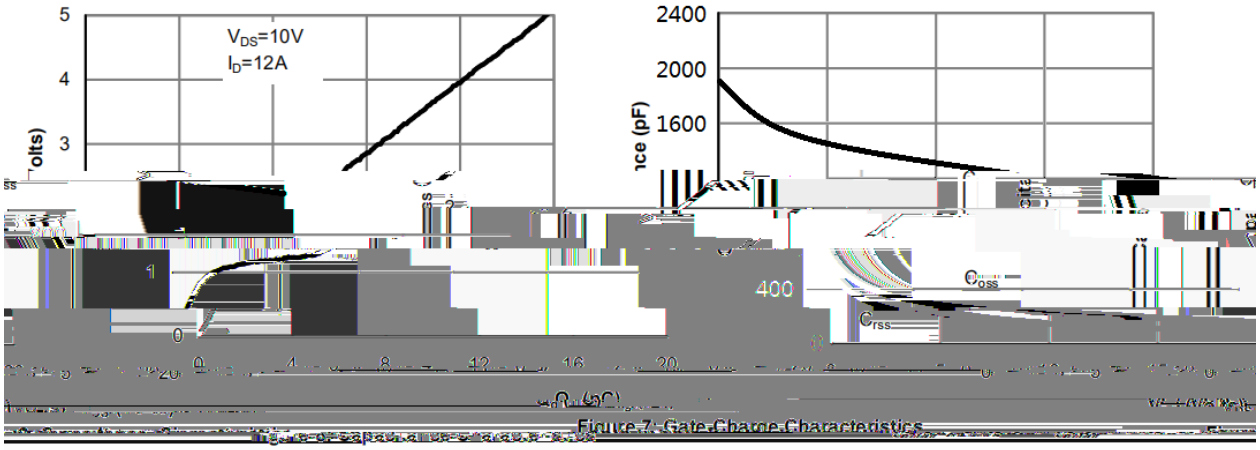
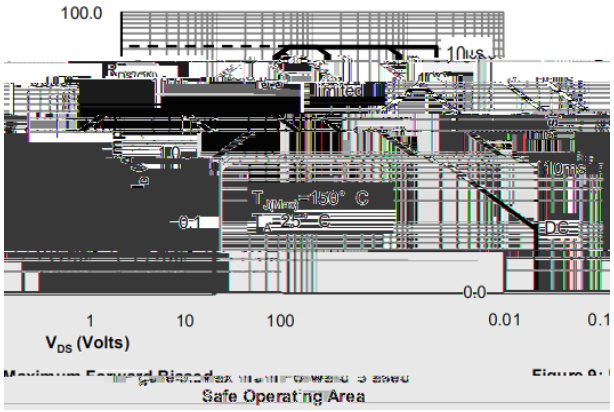


Figure 7: Gate-Charge Characteristics



Safe Operating Area

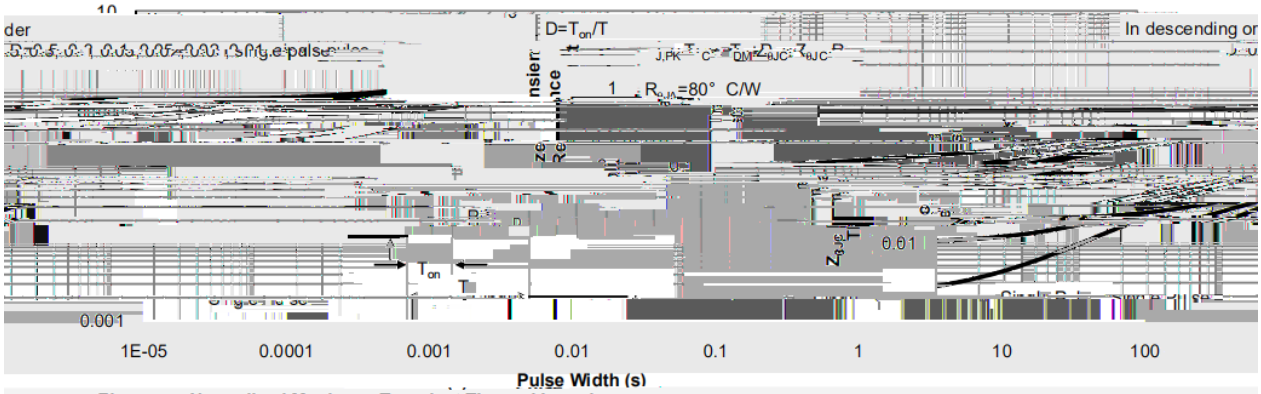
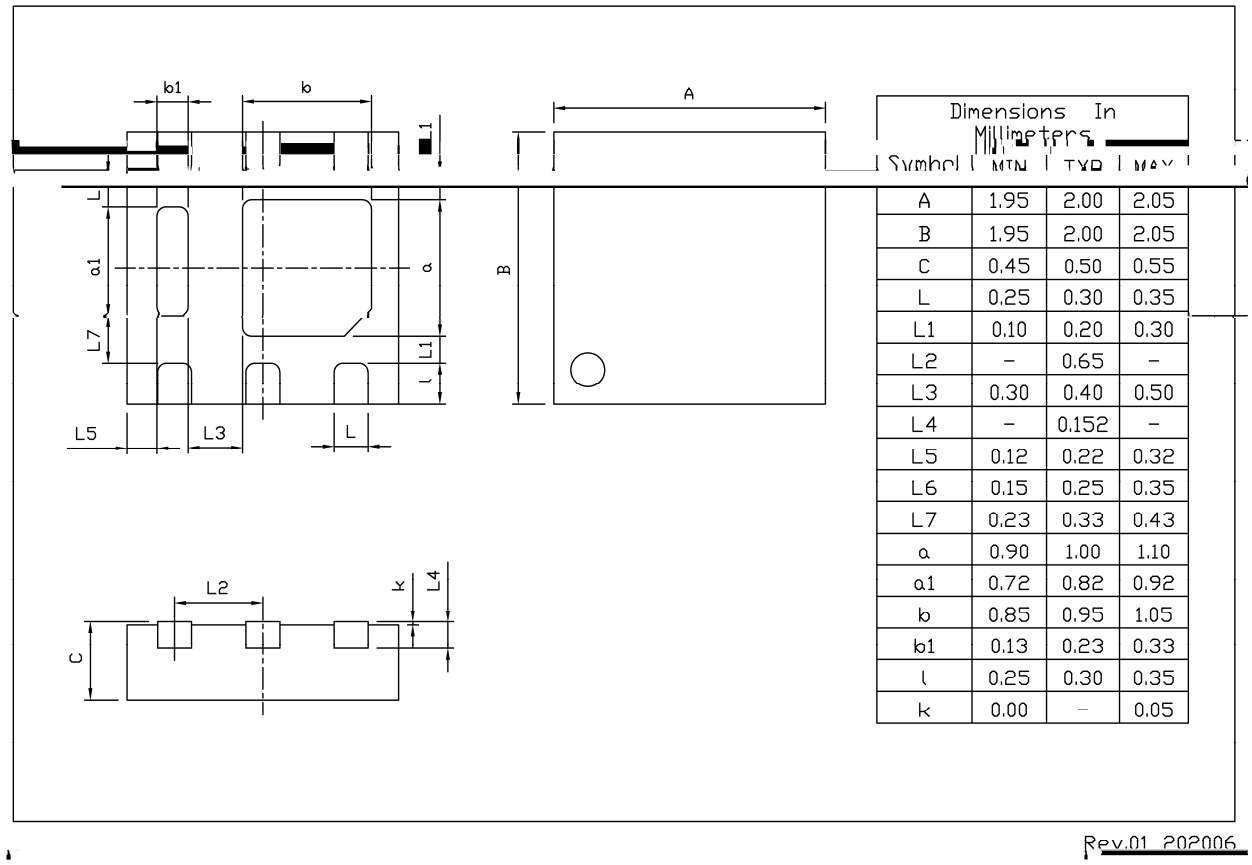


Figure 10: Normalized Maximum Transient Thermal Impedance

DFN2×2B-6L-0.5 Unit:mm



Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	1.95	2.00	2.05
B	1.95	2.00	2.05
C	0.45	0.50	0.55
L	0.25	0.30	0.35
L1	0.10	0.20	0.30
L2	–	0.65	–
L3	0.30	0.40	0.50
L4	–	0.152	–
L5	0.12	0.22	0.32
L6	0.15	0.25	0.35
L7	0.23	0.33	0.43
a	0.90	1.00	1.10
a1	0.72	0.82	0.92
b	0.85	0.95	1.05
b1	0.13	0.23	0.33
l	0.25	0.30	0.35
K	0.00	–	0.05

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