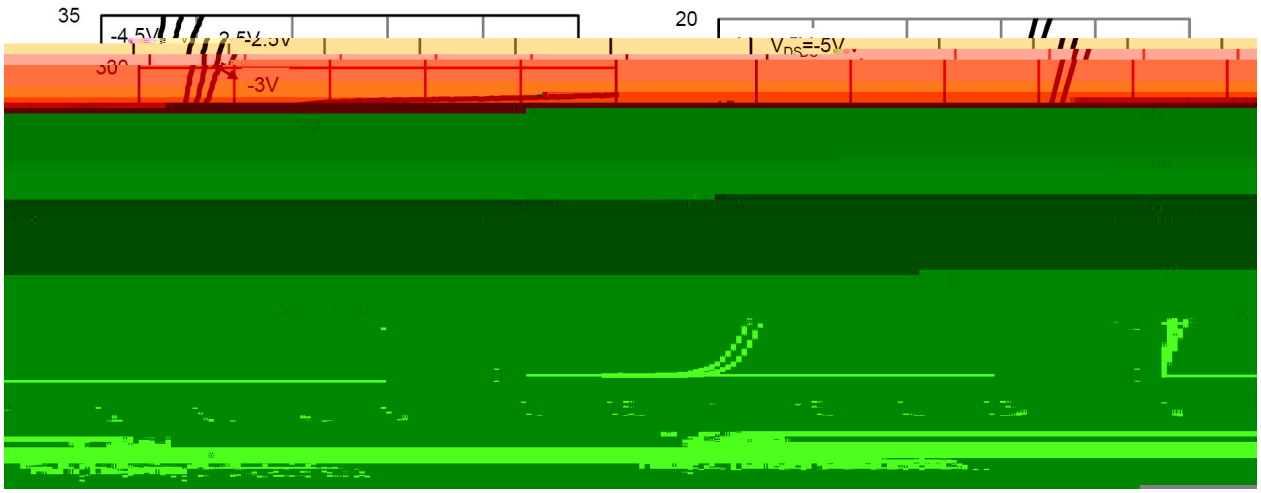
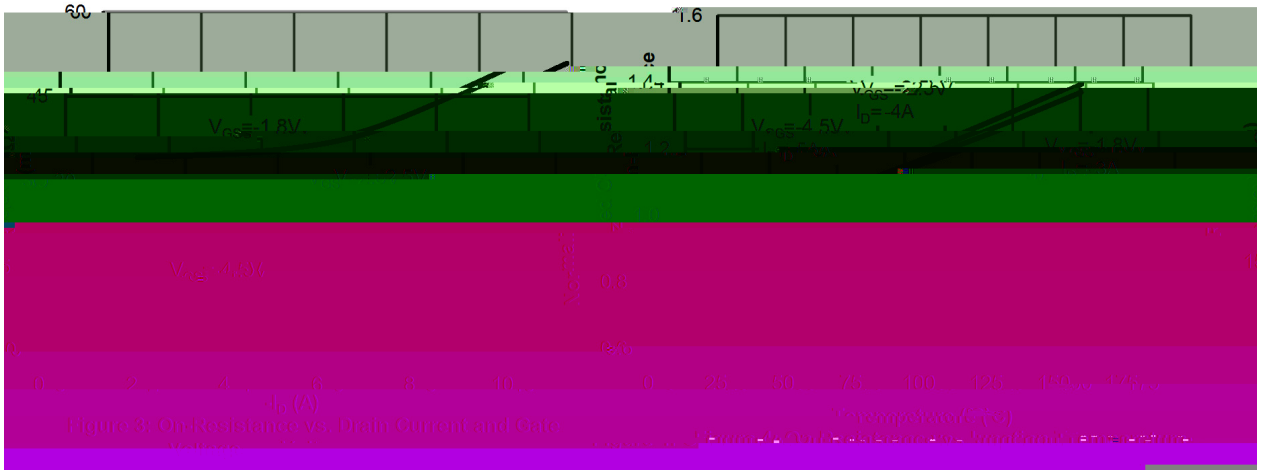
/ Absolute Maximum Ratings(Ta=25)

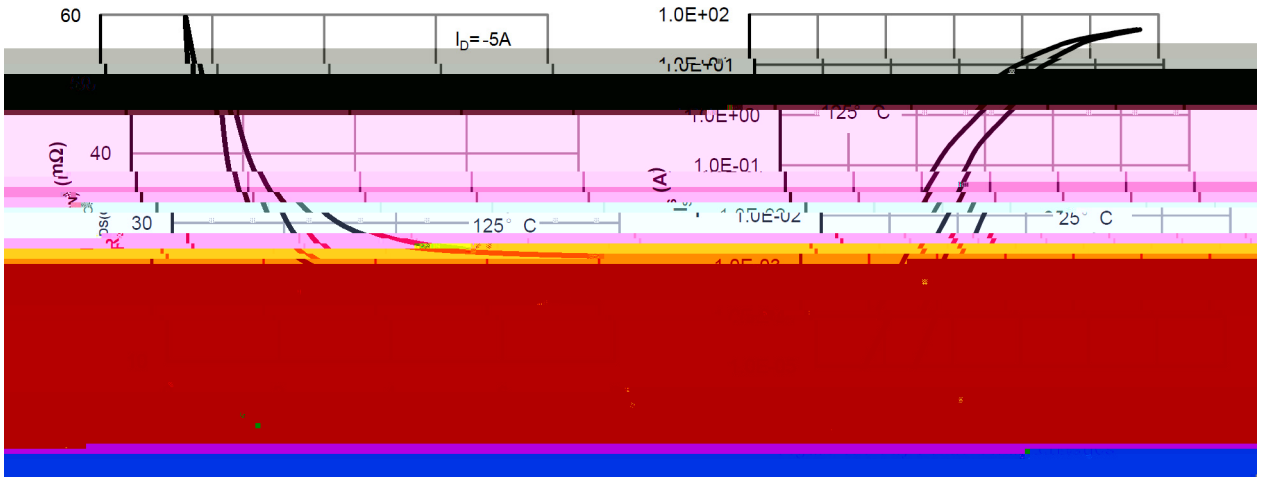
v ˝Ǫ Parameter		ϒ N Symbol	˝Ǫ Ө Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	-20	V
Gate-Source Voltage		V_{GSS}	±12	V
Continuous Drain Current		I_D (T_a=25°C)	-9.5	A
Pulsed Drain Current		I_{DM}	-43	A
Power Dissipation for Single Operation		P_D (T_a=25)	2.8	W
Maximum Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 Ќ 150	
Thermal Resistance-Junction to Ambient	t ˇ 10s	$R_{\theta JA}$	45	/W
	Steady State		78	/W

v Ѽ Parameter	ϒ N Symbol	⊥ :ϒ ϒ Test Conditions	ѡ ɳ Ө Min	Ɛ ȝ Ө Typ	ѡ ᶻ Ө Max	ɒ ɥ Unit
Drain-Source Breakdown Voltage	BV_{DSS}	I_D=-250μA V_{GS}=0V	-20	-22.5		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-20V V_{GS}=0V			-1.0	μA
Gate-Body leakage current	I_{GSS}	V_{DS}=0V V_{GS}=±12V			±100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=VGS I_D=-250μA	-0.5	-0.6	-1.0	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	V_{GS}=-4.5V I_D=-5A		20	22	mΩ
		V_{GS}=-2.5V I_D=-4A		26	30	
		V_{GS}=-1.8V I_D=-3A		35	100	
Diode Forward Voltage	V_{SD}	I_S=-1A V_{GS}=0V			-1.2	V
Gate resistance	Rg	V_{GS}=0V, f=1MHz V_{DS}=0V,		11		Ω
Input Capacitance	C_{iss}	V_{GS}=0V f=1MHz V_{DS}=-5V		1700		pF
Output Capacitance	C_{oss}			600		
Reverse Transfer Capacitance	C_{rss}			450		
Total Gate Charge	Q_g	V_{GS}=-4.5V, I_D=-6A V_{DS}=-10V,		13		nC
Gate Source Charge	Q_{gs}			2.5		
Gate Drain Charge	Q_{gd}			4.2		
Turn–On Delay Time	$t_{d(on)}$	V_{GS}=-4.5V V_{DS}=-10V R_L=1.25Ω R_{GEN}=3Ω		7.5		ns
Turn–On Rise Time	t_r			29.2		
Turn–Off Delay Time	$t_{d(off)}$			103		
Turn–Off Fall Time	t_f			50		

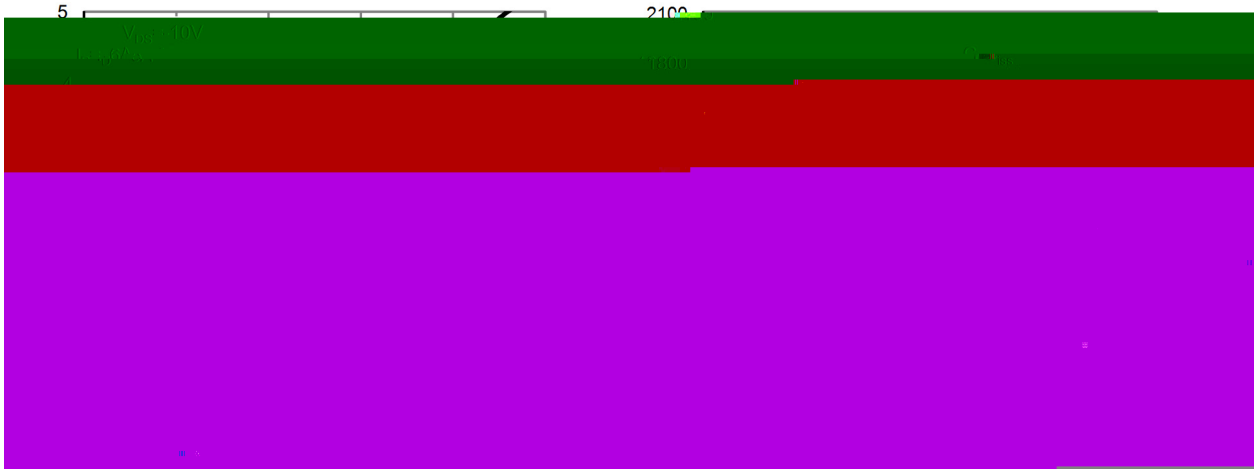
/ Electrical Characteristic Curve

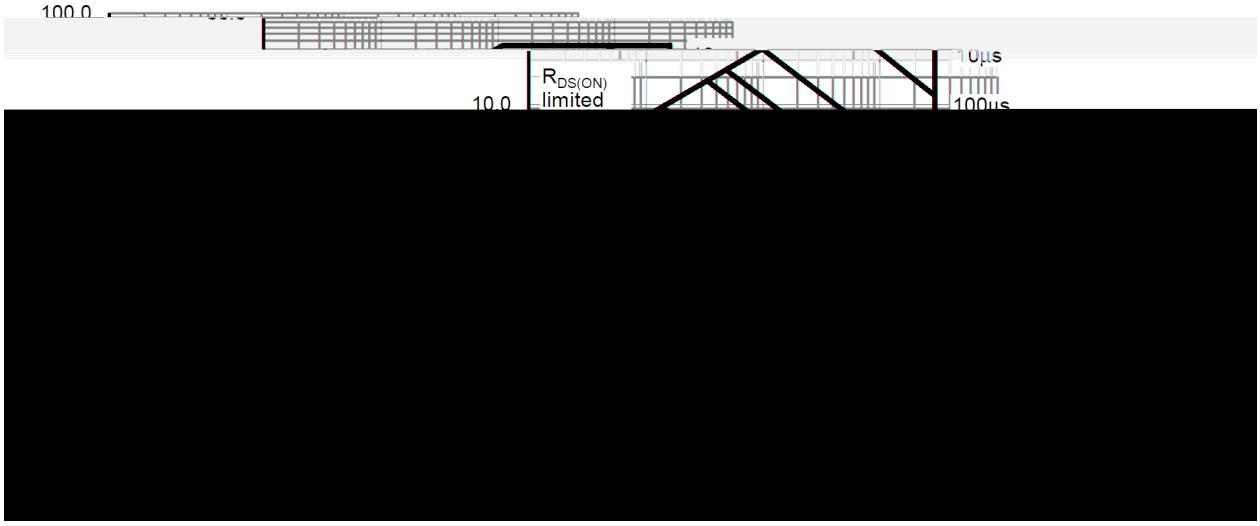


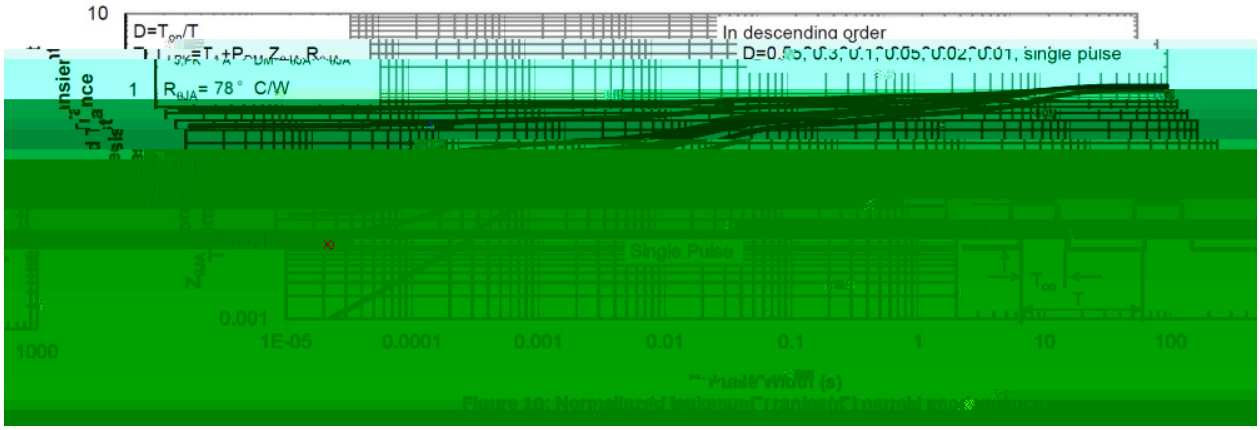




Electrical Characteristic Curve

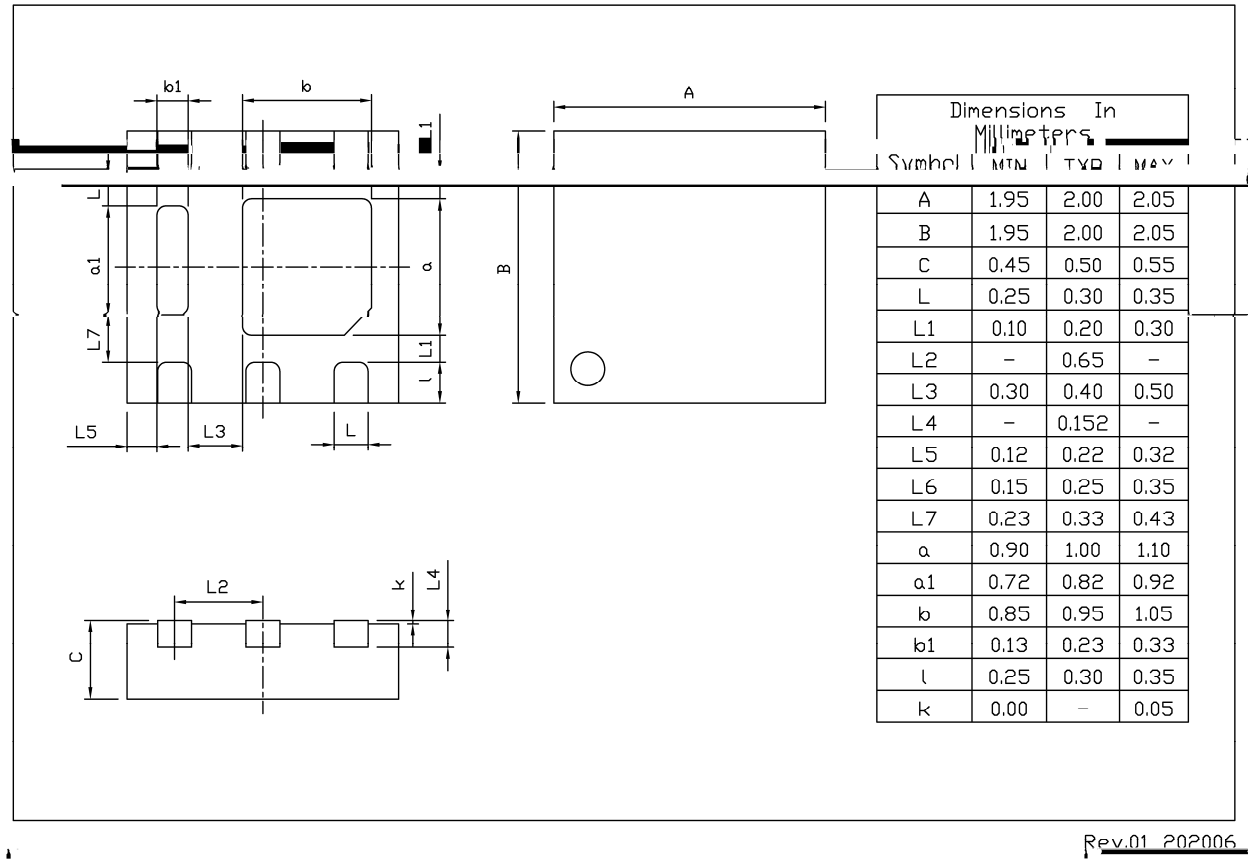






/ Package Dimensions

DFN2×2B-6L-0.5 Unit:mm



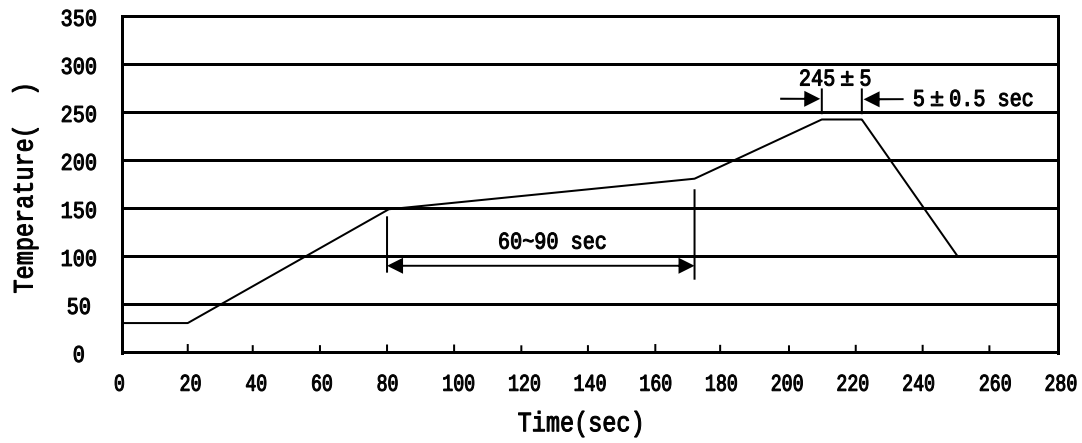
Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	1.95	2.00	2.05
B	1.95	2.00	2.05
C	0.45	0.50	0.55
L	0.25	0.30	0.35
L1	0.10	0.20	0.30
L2	–	0.65	–
L3	0.30	0.40	0.50
L4	–	0.152	–
L5	0.12	0.22	0.32
L6	0.15	0.25	0.35
L7	0.23	0.33	0.43
a	0.90	1.00	1.10
a1	0.72	0.82	0.92
b	0.85	0.95	1.05
b1	0.13	0.23	0.33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

Rev.01 202006

/ Marking Instructions

ب ˝ χ	
BR χ	ѭ ҙ и Ґђ
200P02 χ	ѭ ҙ N Ґђ
**** χ	ѭ ӏ ғ ӈ̆ N Ґђ ӏ ҿ ӏ ғ ӈ̆ N Ψ ҏ
Note:	
BR:	Company Code
200P02:	Product Type Code
****:	Lot No. Code, code change with Lot No

( ) /



ڍ ˝ χ

1 Ĺ ♬ □ ẙ 150 Ḱ 180 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ë □ ẙ 245 ° 5 ł ı `H ڑ `Y ʌ ㎛ 5 ° 0.5sec;

3 ì ˙ ϒ ˛ ↄ ♭ ẙ ㎛ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:150~180 ł , Time:60~90sec.

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ẙ χ 260 ° 5 ł `H ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ↄ ` ϒ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
DFN2×2B-6L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

/ Notices