

Rev.A Sep.-2023

DFN2×2B-6L P MOS

P-Channel Enhancement Mode Field Effect Transistor in a DFN2×2B-6L Plastic Package.

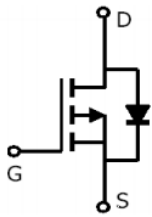
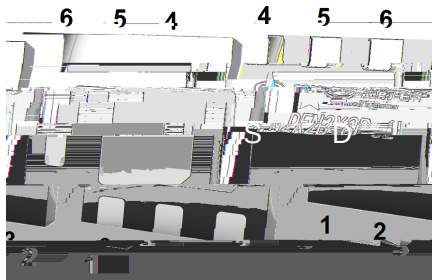
$V_{DS}(V)=-30V$ $I_D=-7.8A$

$R_{DS(ON)}<22m\Omega$ ($V_{GS}=-10V$)

$R_{DS(ON)}<35m\Omega$ ($V_{GS}=-4.5V$)

HF Product.

Power Management in Notebook Computer, Portable Equipment and Battery Powered Systems.

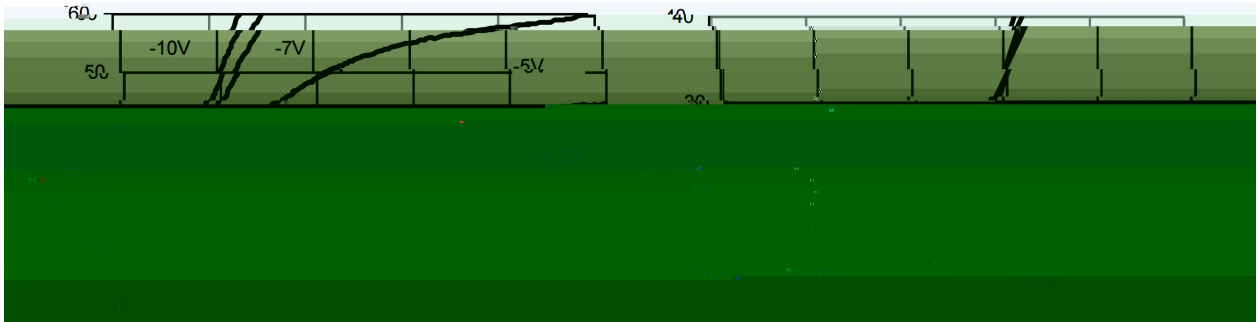


See Marking Instructions.

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	-30	V
Drain Current - Continuous		I_D	-7.8	A
Drain Current – Pulsed		I_{DM}	-29.4	A
Gate-Source Voltage		V_{GS}	± 20	V
Power Dissipation		P_D	2	W
Single Pulse Avalanche Energy(L=0.5mH)		E_{AS}	152	mJ
Avalanche Current(L=0.5mH)		I_{AS}	-19.5	A
Junction and Storage Temperature Range		T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	$t \leq 10s$	$R_{\theta JA}$	62.5	/ W
	Steady-State		90	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=0.75\Omega$ $R_{GEN}=3\Omega$		11		ns
Turn-On Rise Time	t_r			5.6		
Turn-Off Delay Time	$t_{d(off)}$			28		
Turn-Off Fall Time	t_f			11		

w ST /Im5 Do6BT/TT4 58 0 0 10.5 57.66 31.6w ST /0()TjETq468.66 0 7 42.72177.194 593.5348.4/Im5 Do7BT/TT



1

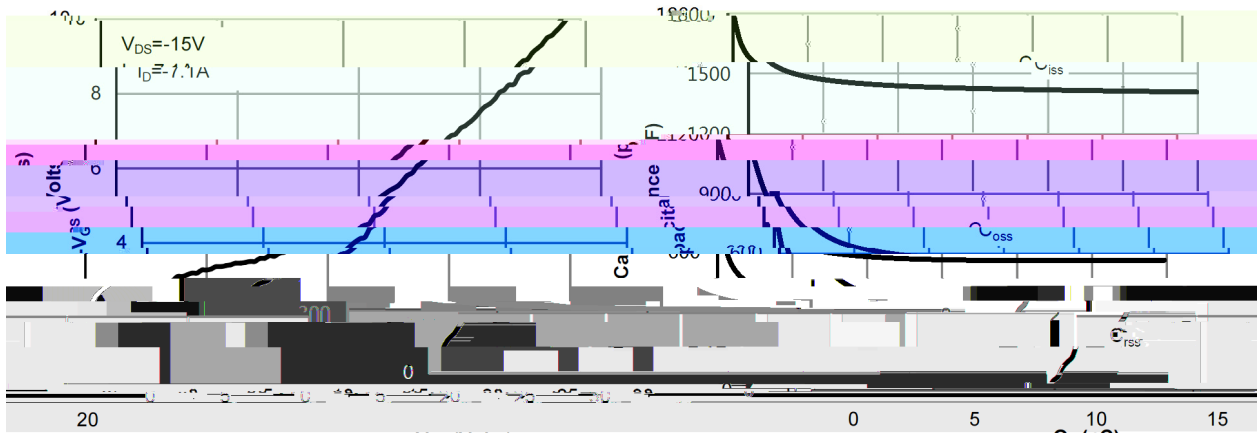
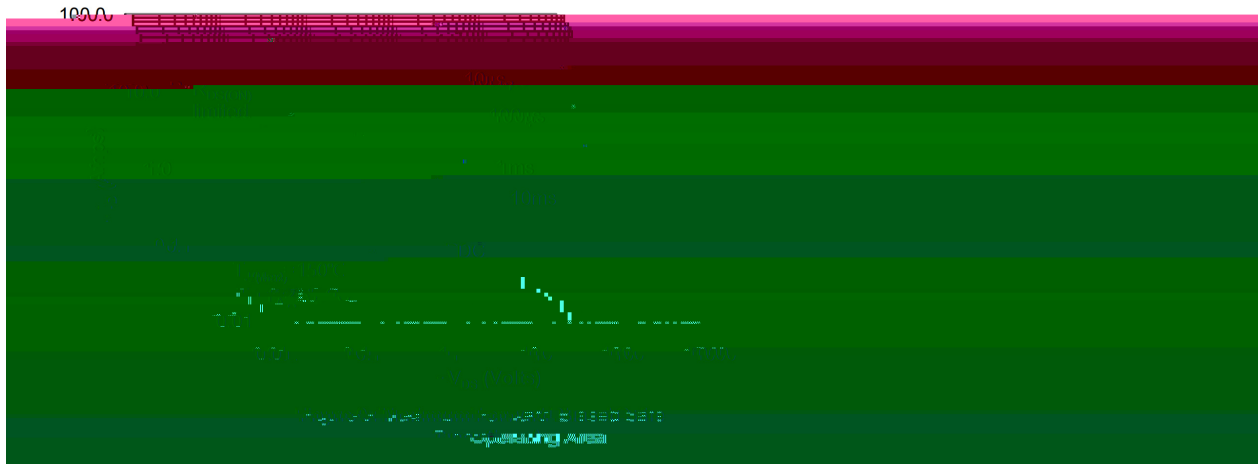
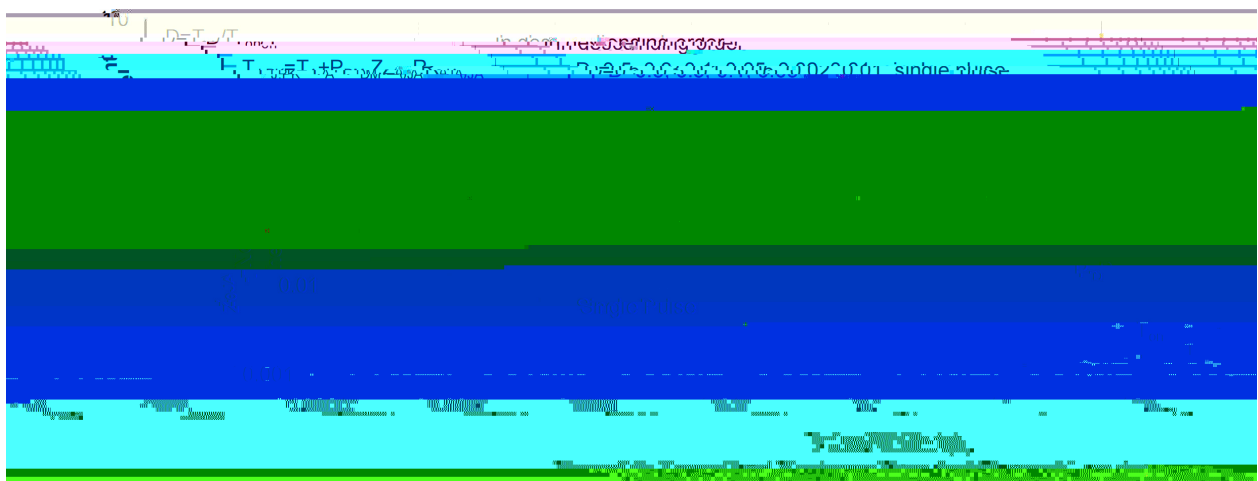


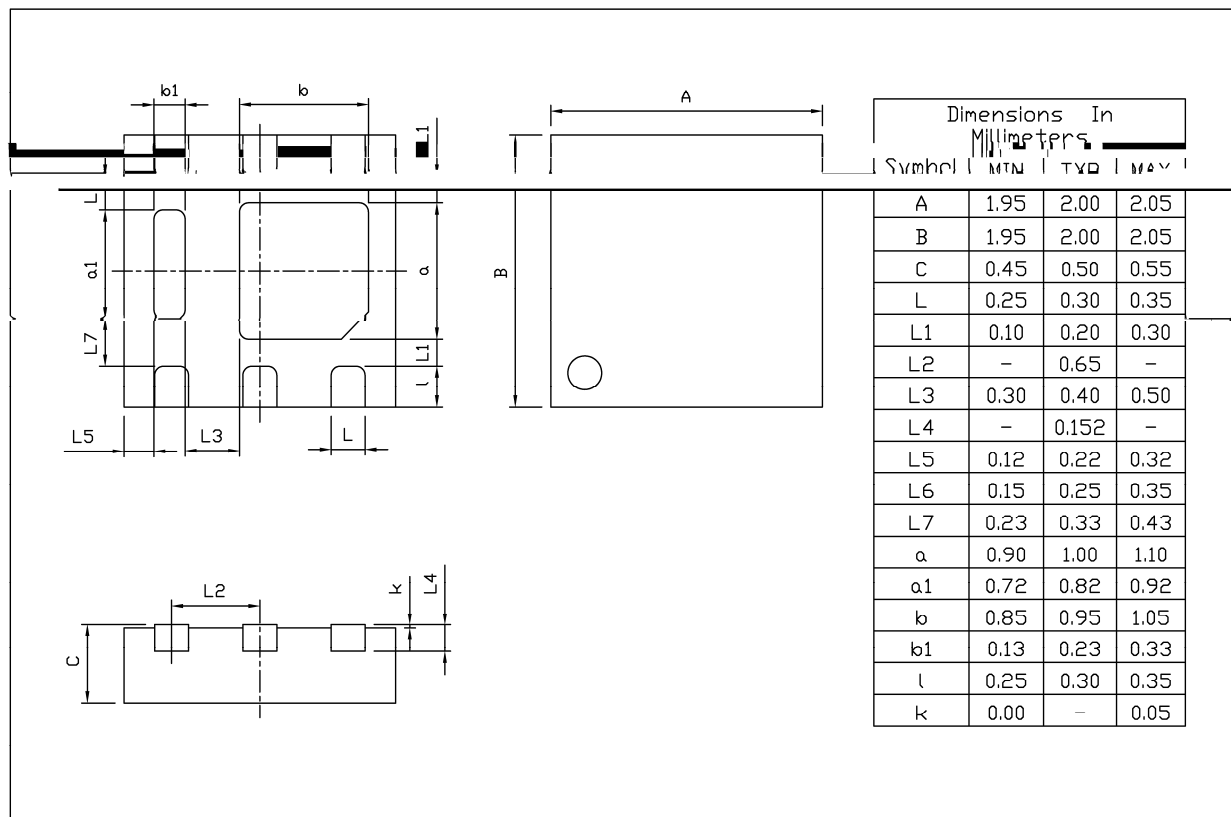
Figure 7: Gate-Charge Characteristics

Figure 8: Capacitance Characteristics



DFN2 X2B-6L-0.5

Unit:mm



Rev.01 202006



BR

200P03

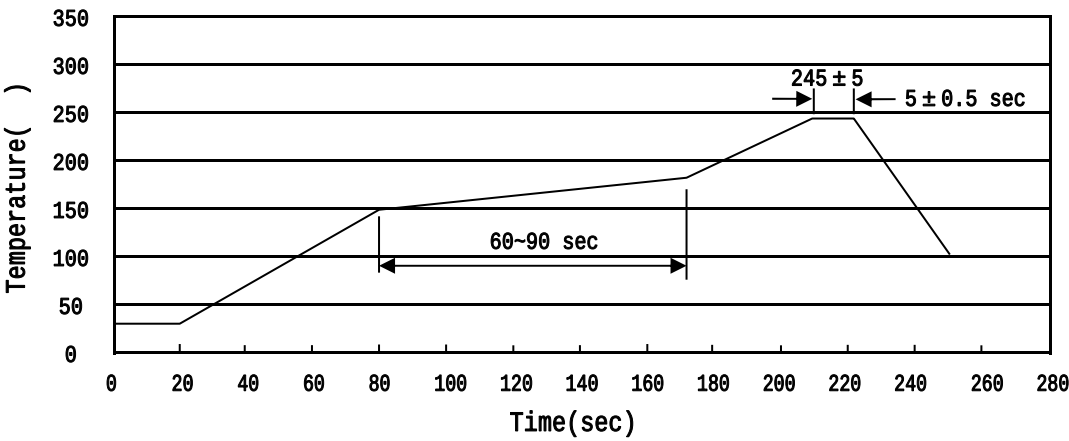
Note:

BR: Company Code

200P03: Product Type Code

****: Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	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