

BRCs200P03ZJ

Rev.A Sep.-2023

/ Descriptions

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

/ Features

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

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

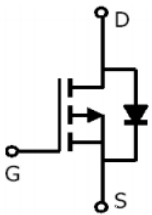
$R_{DS(ON)}<35m$ ($V_{GS}=-4.5V$)

HF Product.

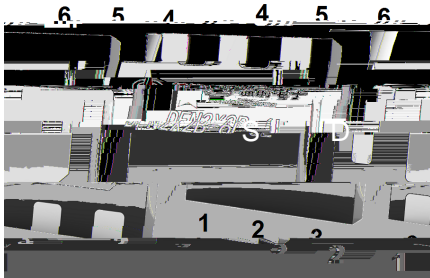
/ Applications

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

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.

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DATA SHEET

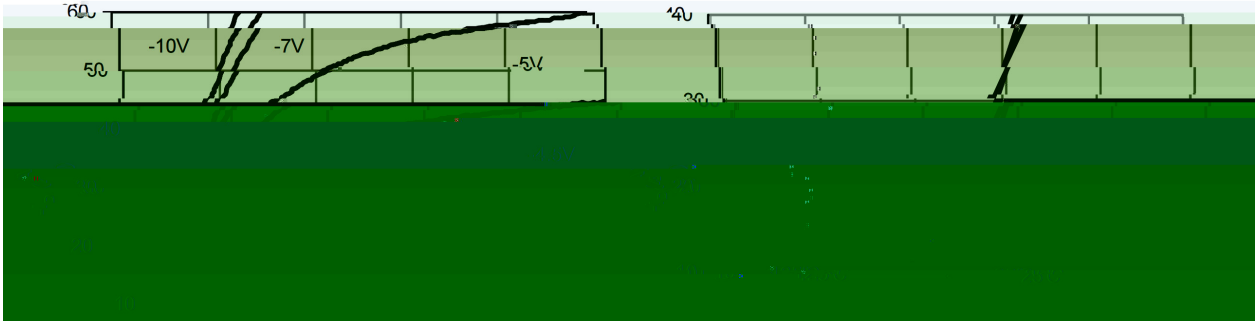
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	I_D	-7.8	A
Drain Current – Pulsed	I_{DM}	-29.4	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	P_D	2	W
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	152	mJ
Avalanche Current(L=0.5mH)	I_{AS}	-19.5	A
Junction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

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=0.75$ $R_{GEN}=3$		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		

/ Electrical Characteristic Curve

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



/ Electrical Characteristic Curve

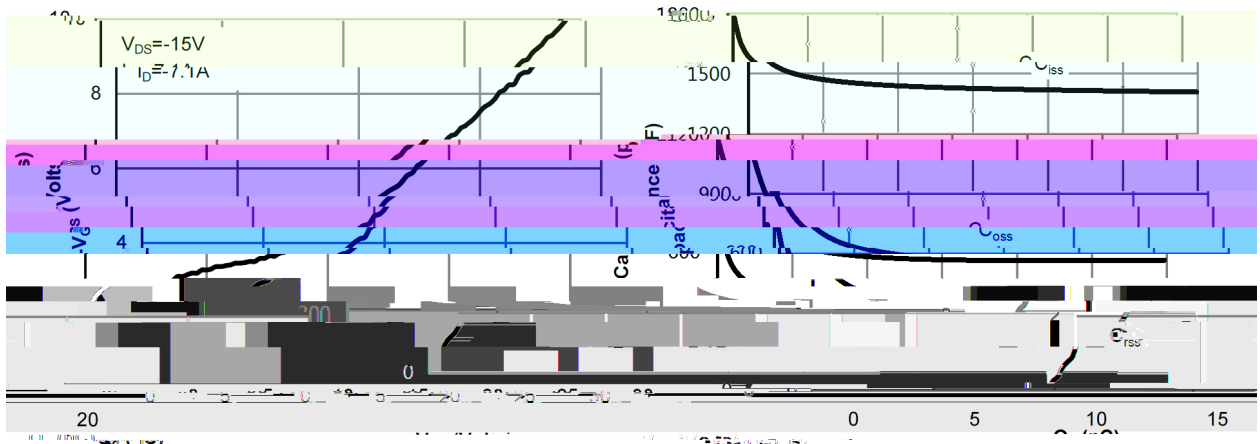
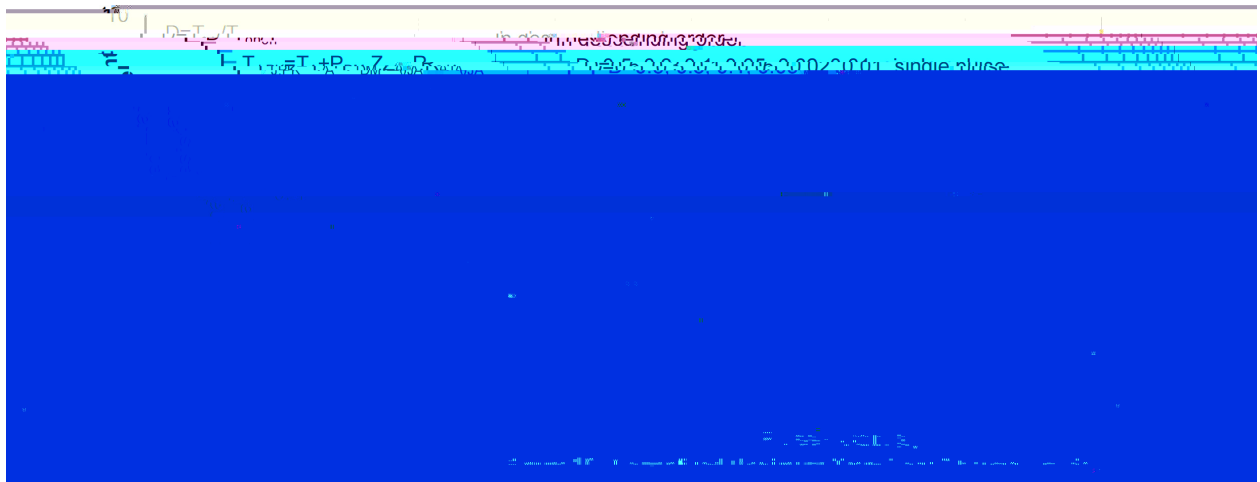
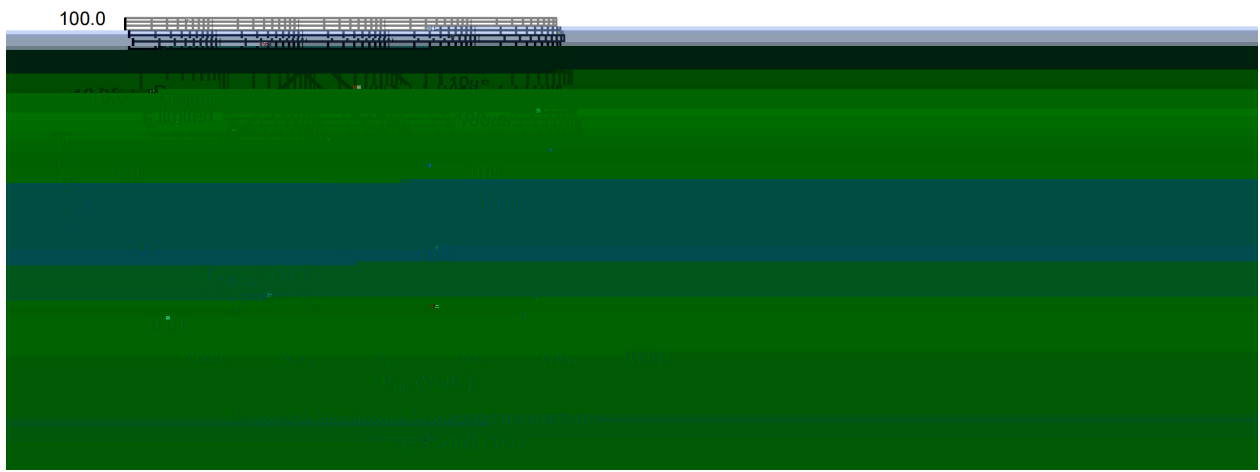


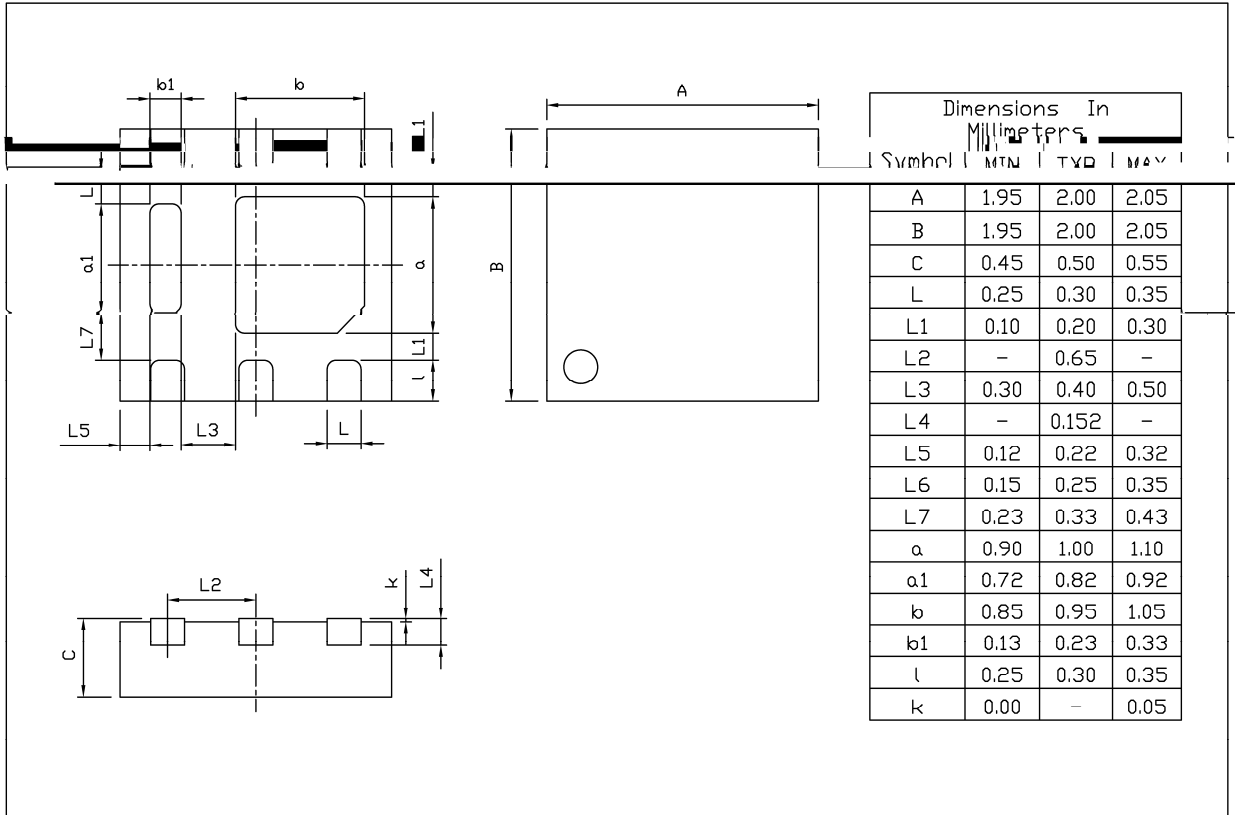
Figure 7: Gate Charge Characteristics Figure 8: Capacitance Characteristics Figure 9: Power Characteristics



/ Package Dimensions

DFN2 X2B-6L-0.5

Unit:mm



Rev.01 202006

/ Marking Instructions



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200P03

Note:

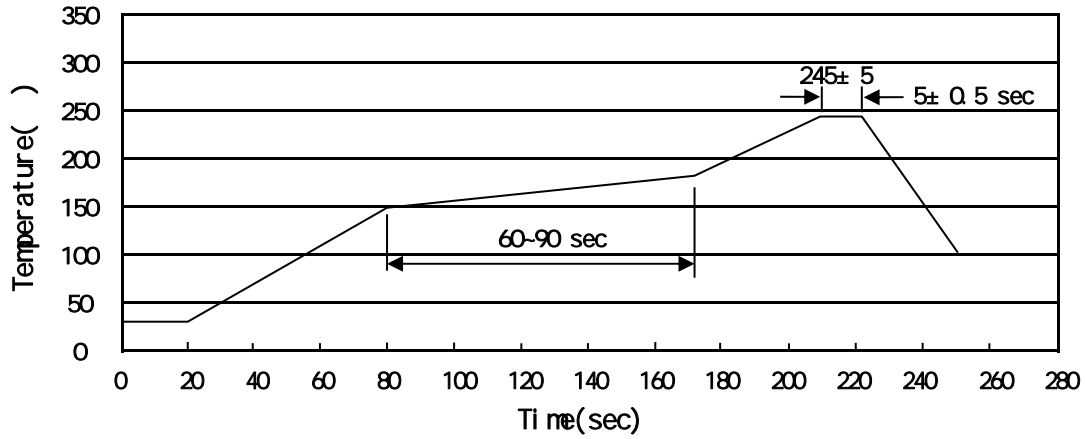
BR: Company Code

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. |

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ 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
DFN2x2B-6L	4,000	10	40,000	4	160,000	7 x8	210x205x205	445x435x230

/ Notices