

Rev.A Dec.-2023

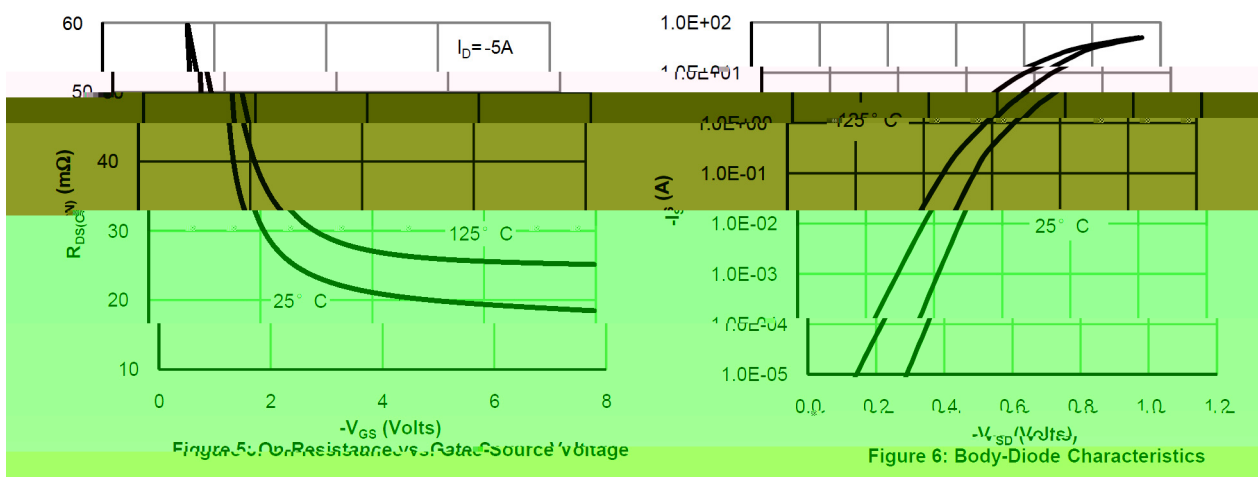
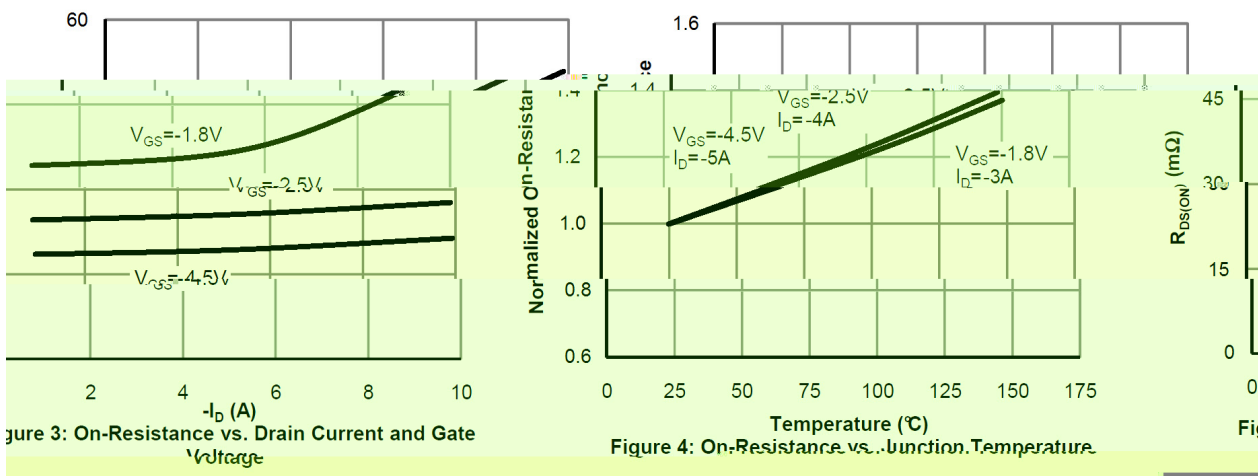
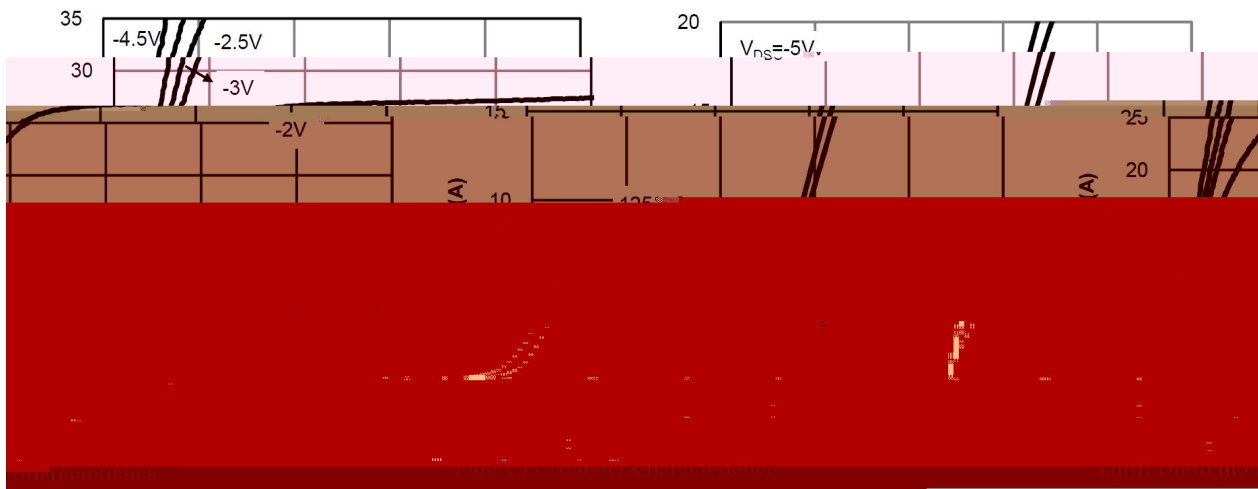
DFN2×2B-6L P MOS

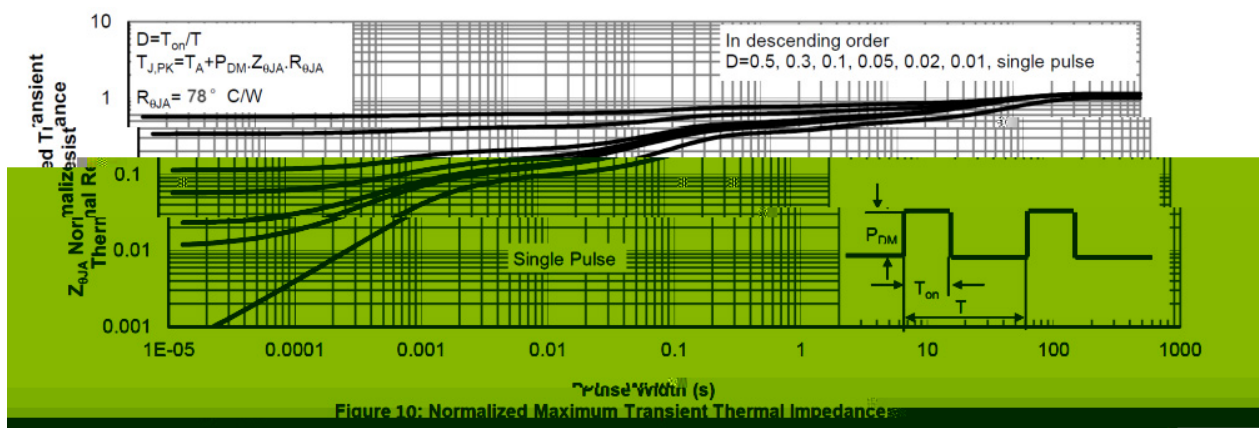
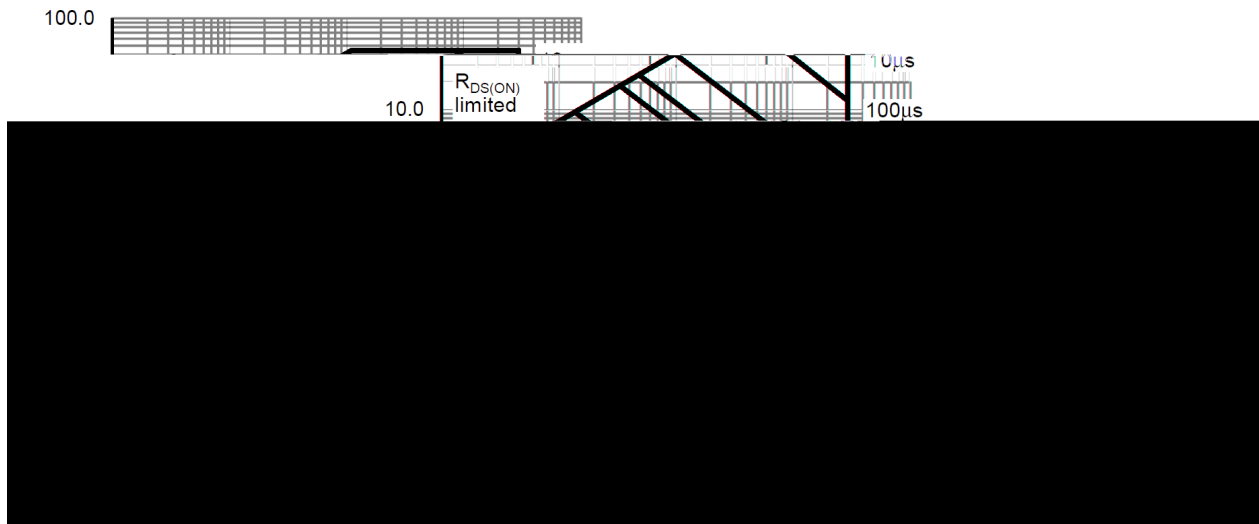
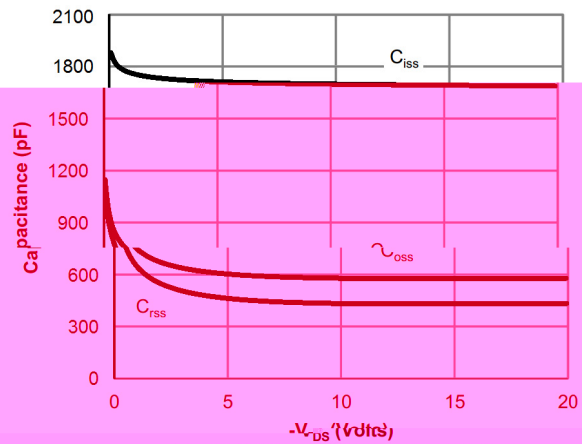
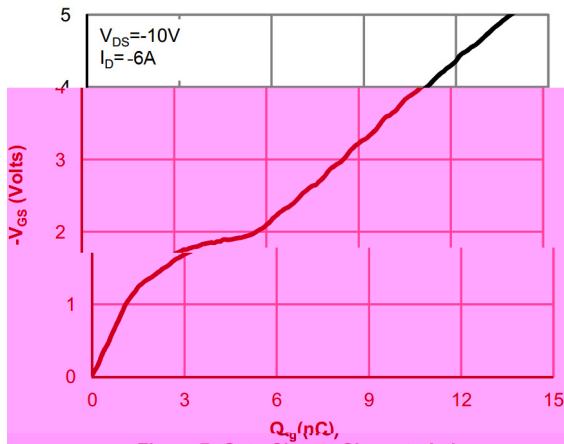
P-Channel Enhancement Mode Field Effect Transistor in a DFN2×2B-6L Plastic Package.

V_{DS}

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

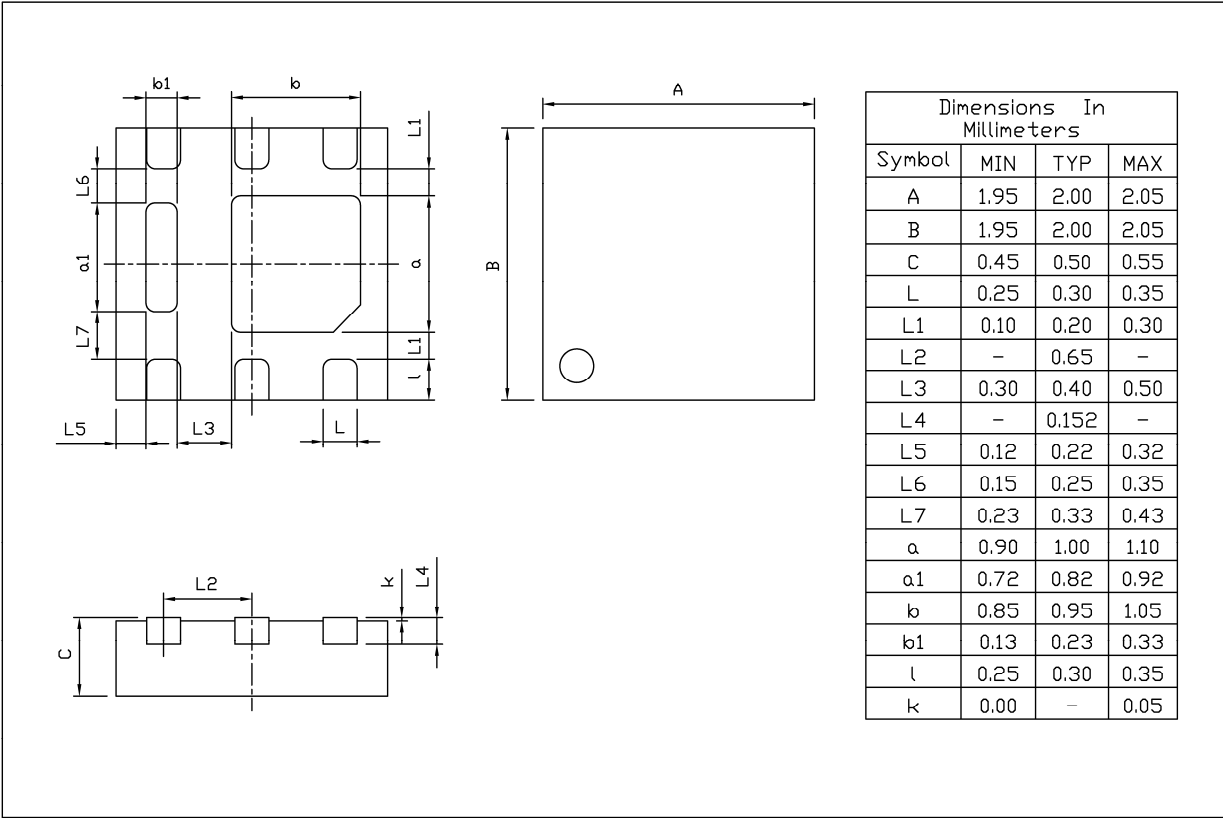
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\mu A$ $V_{GS} = 0V$	-20	-22.5		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -20V$ $V_{GS} = 0V$			-1.0	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$ $V_{GS} = \pm 12V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}$ $I_D = -250\mu A$	-0.5	-0.6	-1.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -4.5V$ $I_D = -5A$		20	22	m Ω
		$V_{GS} = -2.5V$ $I_D = -4A$		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	R_g	$V_{GS} = 0V$, $f = 1MHz$ $V_{DS} = 0V$,		11		Ω
Input Capacitance	C_{iss}	$V_{GS} = 0V$ $V_{DS} = -5V$ $f = 1MHz$		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	$t_{d(on)}$	$V_{GS} = -4.5V$ $R_L = 1.25\Omega$ $V_{DS} = -10V$ $R_{GEN} = 3\Omega$		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		





DFN2 ×2B-6L-0.5

Unit:mm



Rev.01 202006

BR
200P02



BR

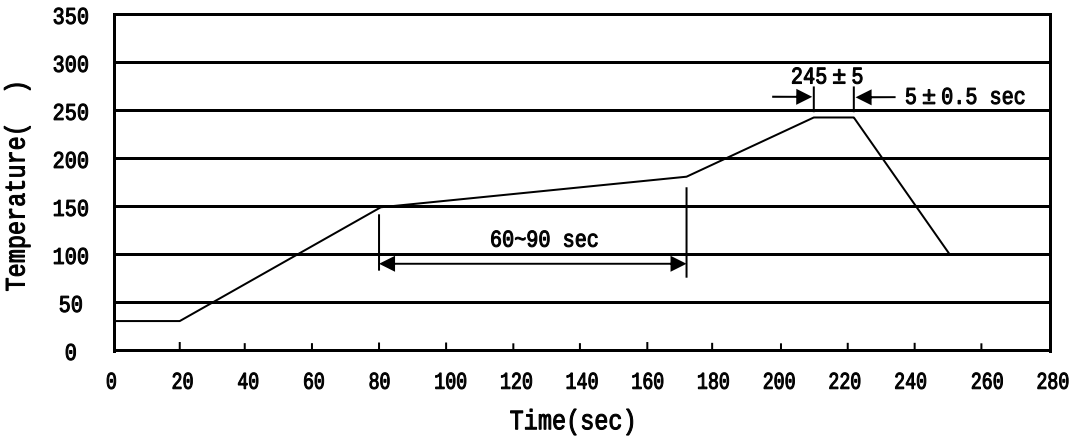
200P02

Note:

BR: Company Code

200P02: Product Type Code

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



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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
DFN2×2B-6L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230