



/ Revised record

A	2020.08.04		AOS-AON2405		
B	2021-8-23	8	3000 4000		
C	2022-3-7	2	特征栏 $I_D = -8A$ 改为 $I_D = -7A$; I_{GSS} $V_{GS}=\pm 20V$ $V_{GS}=\pm 12V$		



/ Descriptions

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

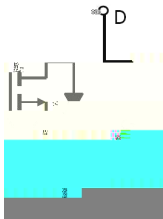
/ Features

$V_{DS} (V) = -20V$ $I_D = -7A$
 $R_{DS(ON)}@-4.5V \leq 30m\Omega$
。 HF Product.

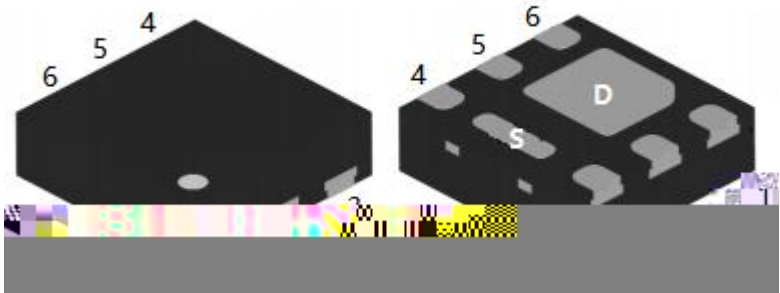
/ Applications

Power Management in Notebook computer, Portable Equipment and Battery powered systems.

/ Equivalent Circuit



/ Pinning



出脚	定义
Pin1	D
Pin2	D
Pin3	G
Pin4	S
Pin5	D
Pin6	D

/ Marking

See Marking Instructions.



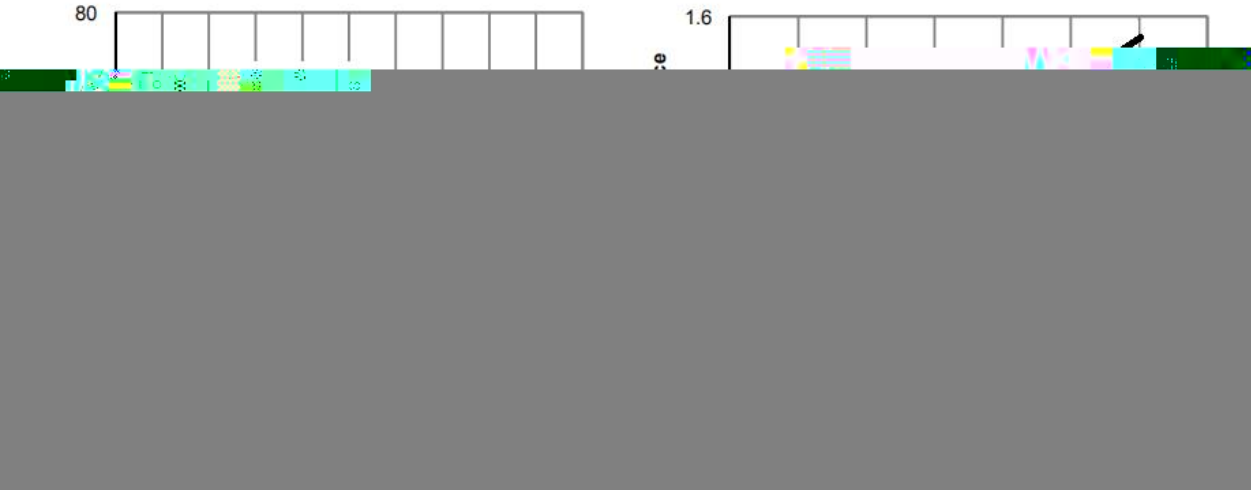
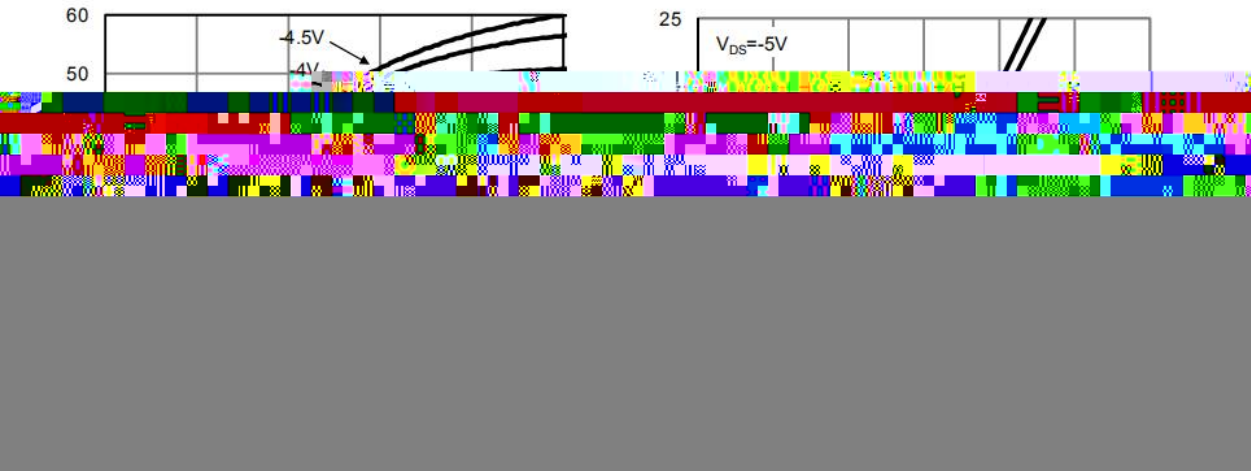
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	-20	V
Gate-Source Voltage	V_{GSS}	± 12	V
Continuous Drain Current	$I_D (T_a=25^{\circ}\text{C})$	-7	A
Continuous Drain Current	$I_D (T_a=70^{\circ}\text{C})$	-5	A
Pulsed Drain Current	I_{DM}	-28	A
Avalanche Current	I_{AS}	21	A
Avalanche energy L=0.5mH	E_{AS}	308	mJ

Power

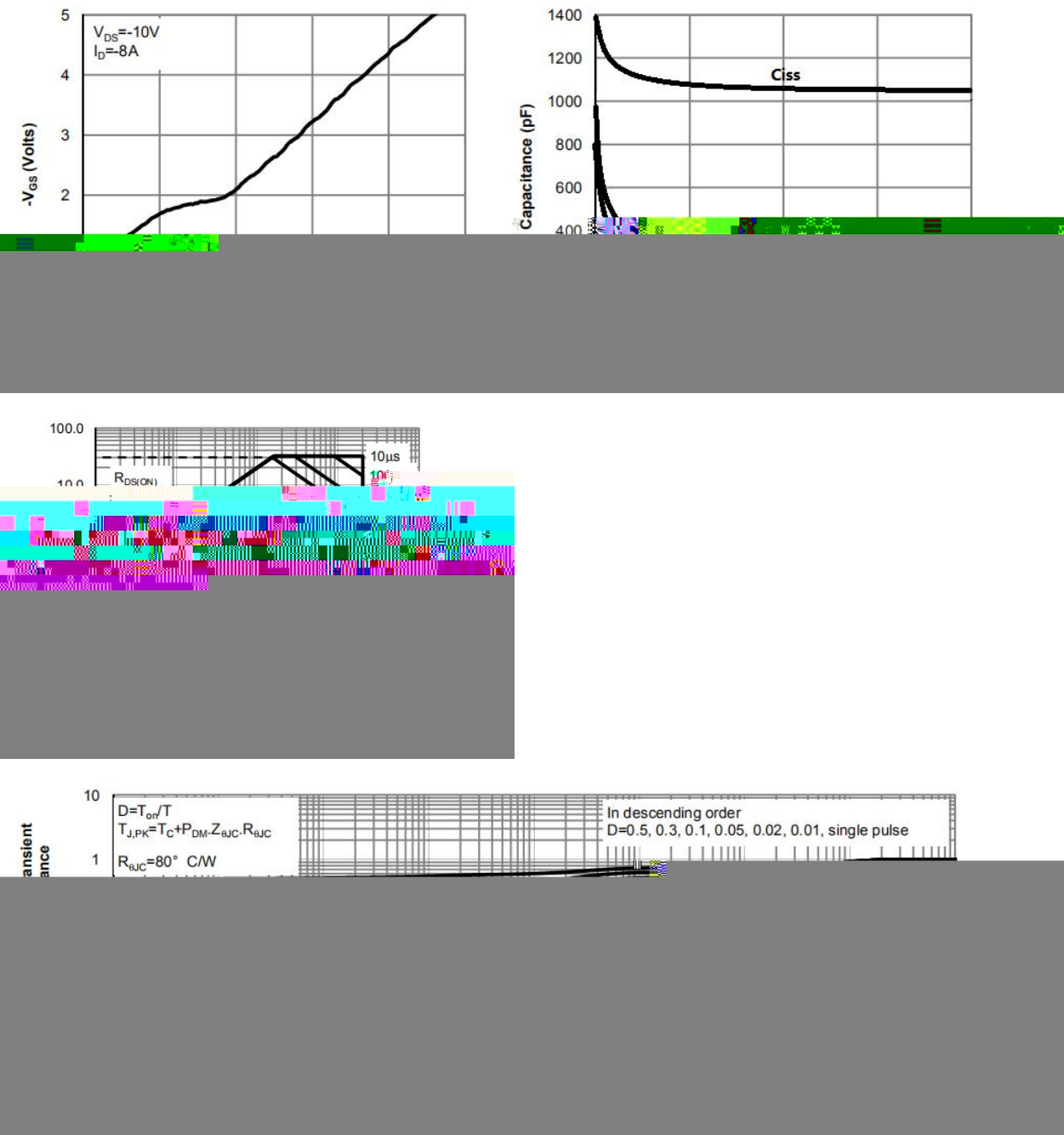


Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\mu A$ $V_{GS} = 0V$	-20	-23		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -20V$ $V_{GS} = 0V$			2.0	μA
		$V_{DS} = -20V$ $V_{GS} = 0V$ $T_J = 55^\circ C$			5.0	
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$ $V_{GS} = \pm 12V$			± 100	nA

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

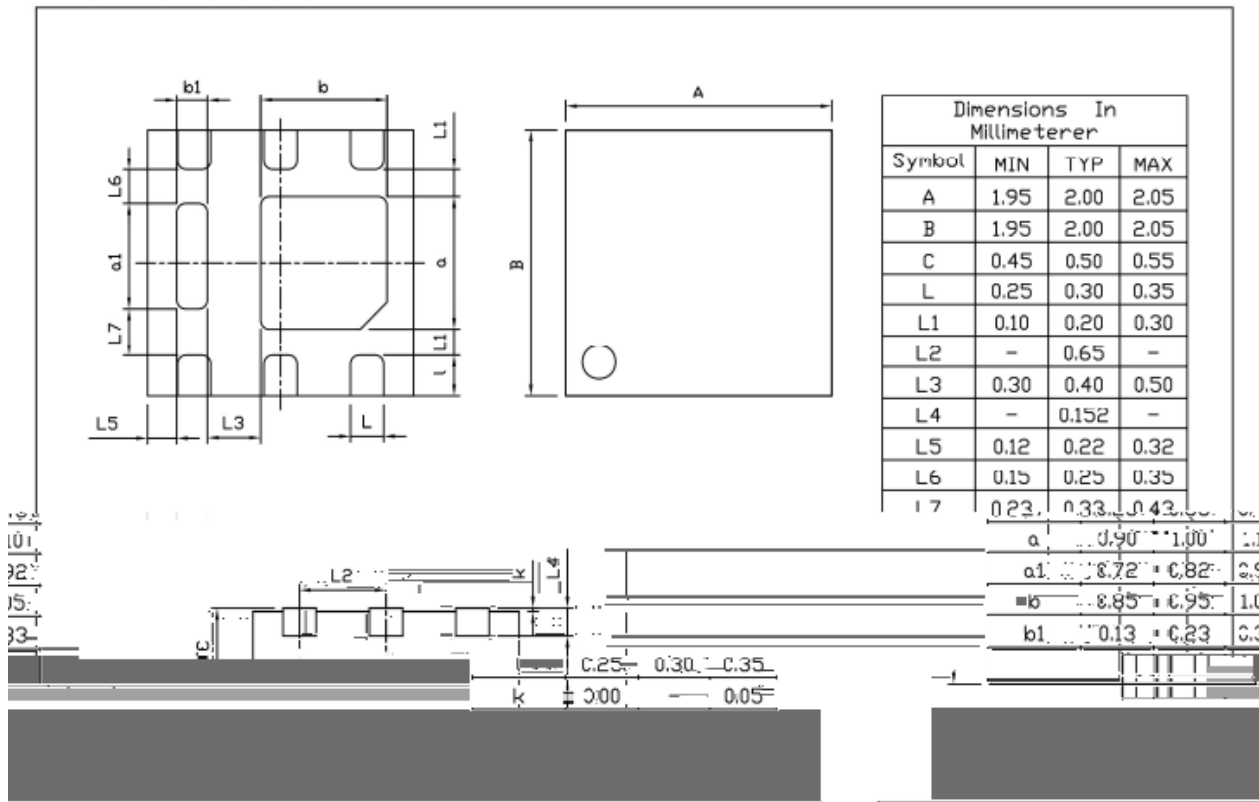




/ Package Dimensions

DFN2×2B-6L-0.5

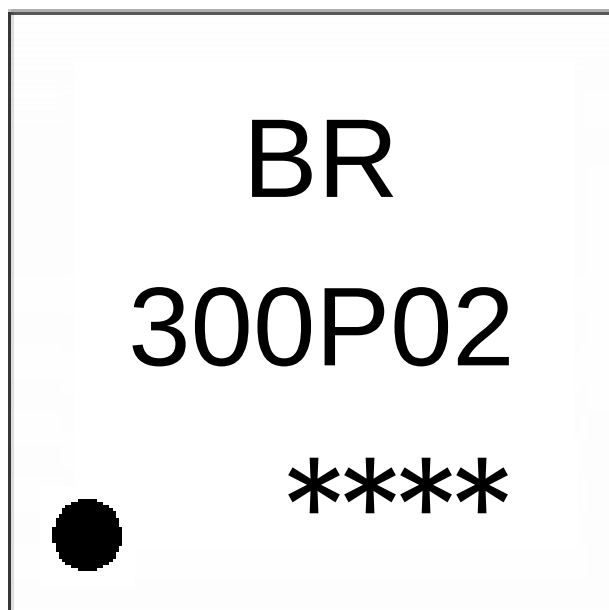
Unit:mm



Rev.01 202006



/ Marking Instructions



BR

300P02

Note:

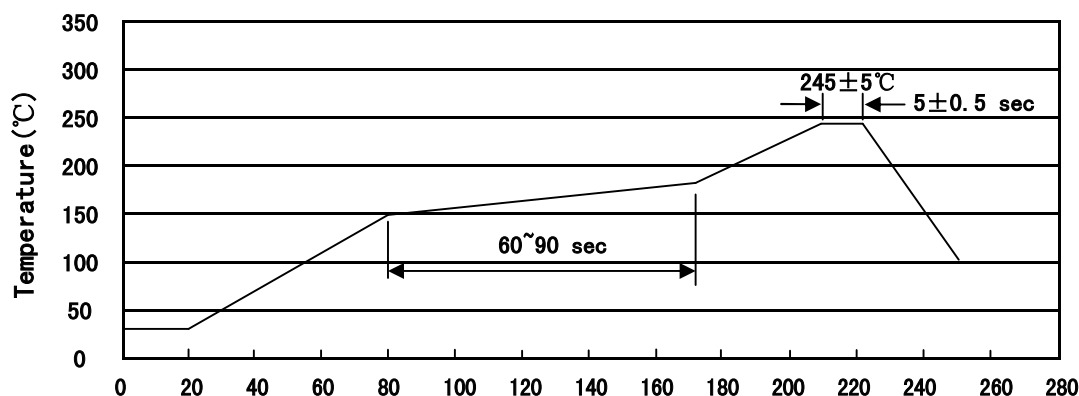
BR: Company Code

300P02: Product Type

****: 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°C, Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | | | 2 | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box 盒	Outer Box 箱
DFN2 × 2B-6L	4,000	10	40,000	4	160,000	7" × 8	210×205×205	445×230×435

/ Notices