/ Revised record

版本	修订日期	有修订的页码	修订涉及的内容	拟制	审核
A	2022.07.15	All	参照 AOS-AONS21307 规格书首次制定规格书首次制定	庞隆基	陈逸晞

/ Descriptions

PDFN5×6 P
。
P-Channel MOSFET in a PDFN5×6 Plastic Package.

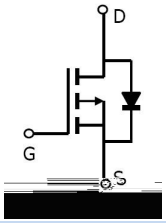
/ Features

Low $R_{DS(ON)}$ to minimize conductive loss;low Gate Charge for fast switching;Low Thermal resistance; HF Product.

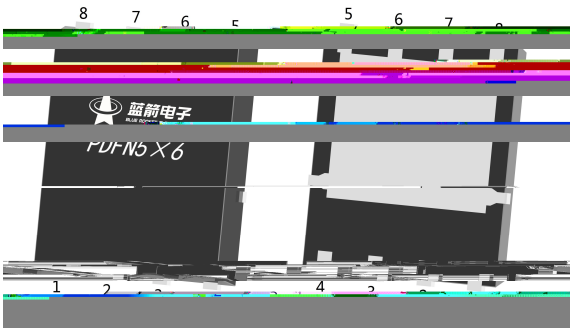
/ Applications

/
Notebook AC-in load switch, Battery Protection Charge/Discharge.

/ Equivalent Circuit



/ Pinning



PIN1、2、3： S PIN4：G PIN5、6、7、8：D

Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D
7	D
8	D

/ Marking

见印章说明。

See Marking Instructions.

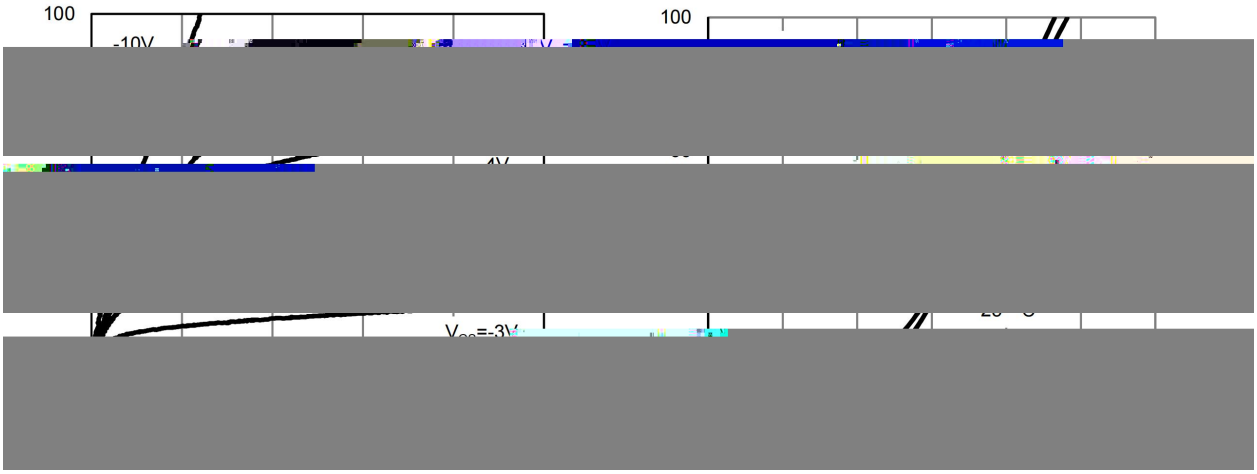
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-40	V
Drain Current - Continuous	I_D(T_c=25℃)	-45	A
Drain Current – Pulsed	I_{DM}	-120	A
Gate-Source Voltage	V_{GS}	±20	V
Power Dissipation	P_D(T_c=25℃)	40	W

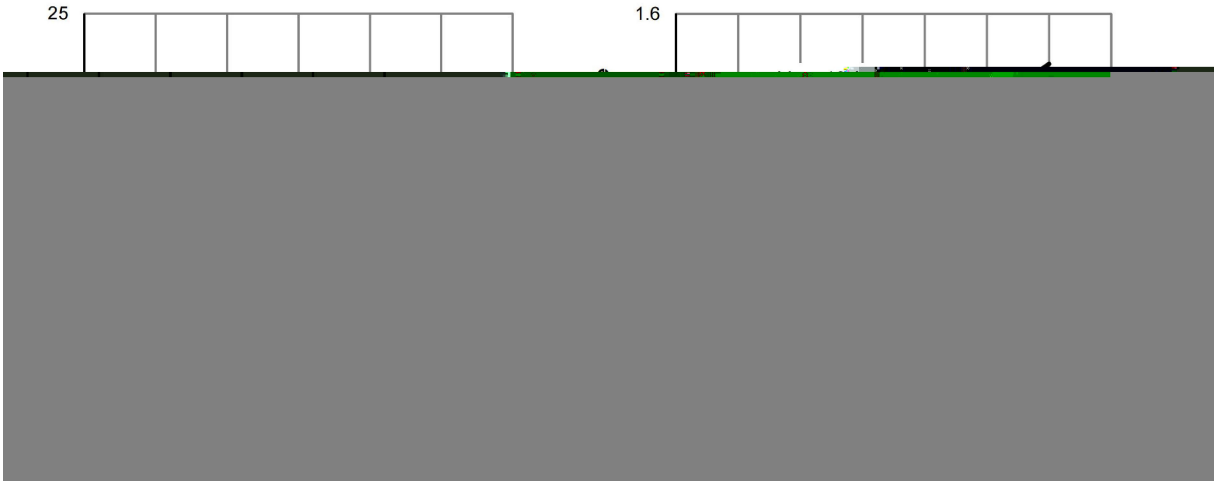
Single Pulse Avalanche Energy(L=

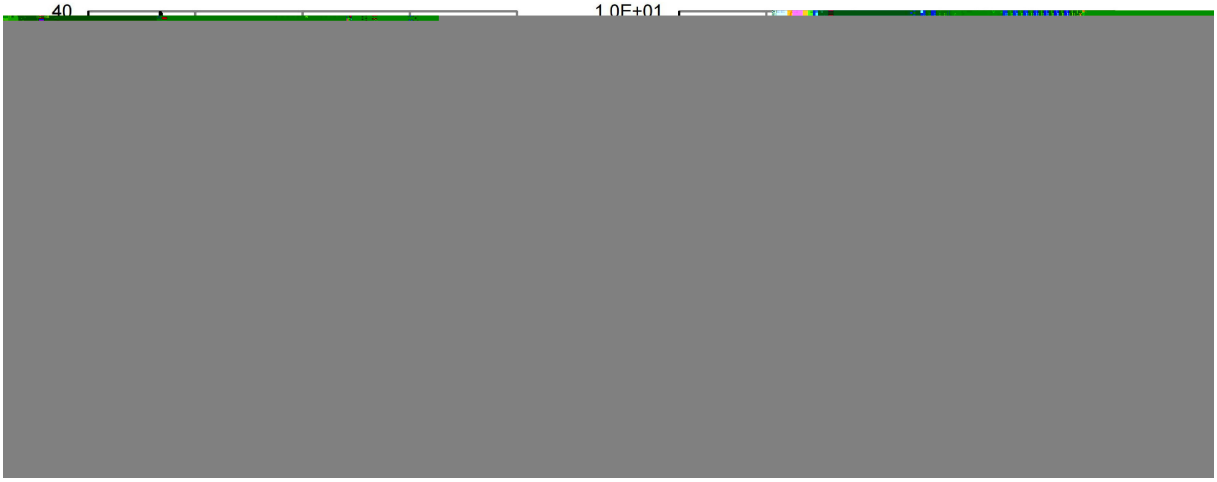
BRCS120P04ZC

Rev.A Jul

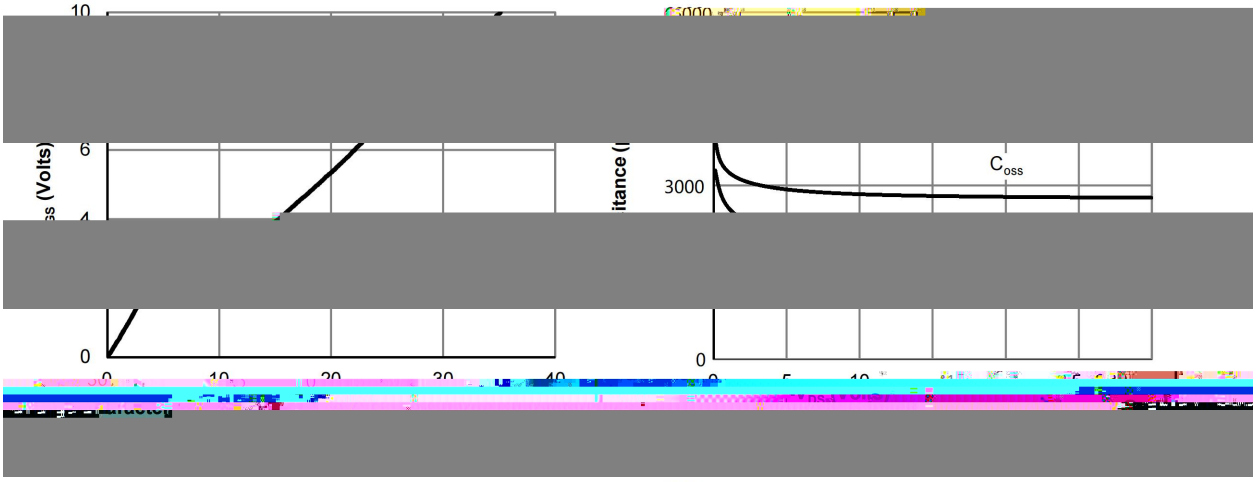
/ Electrical Characteristic Curve

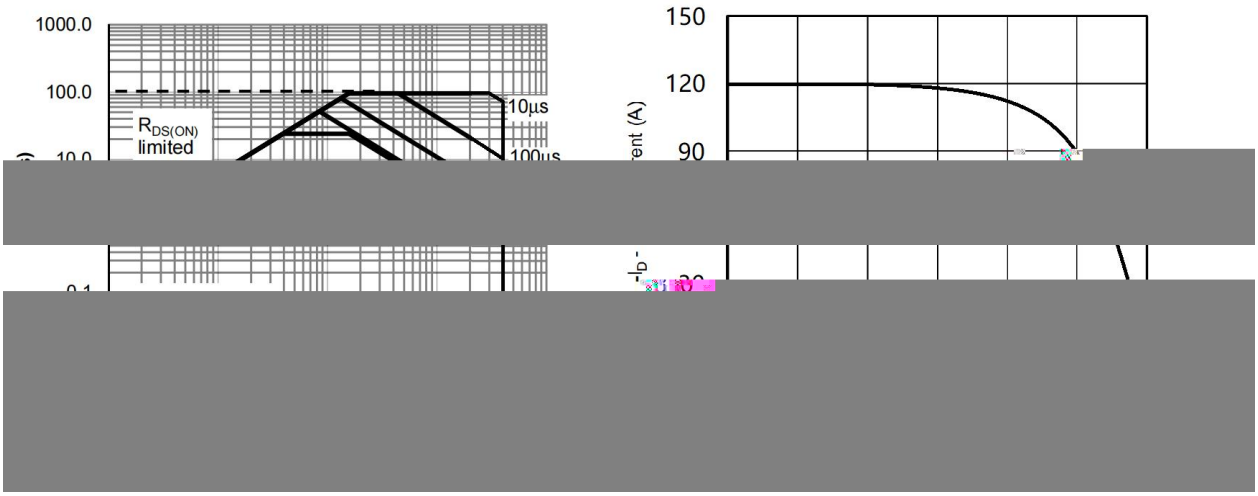


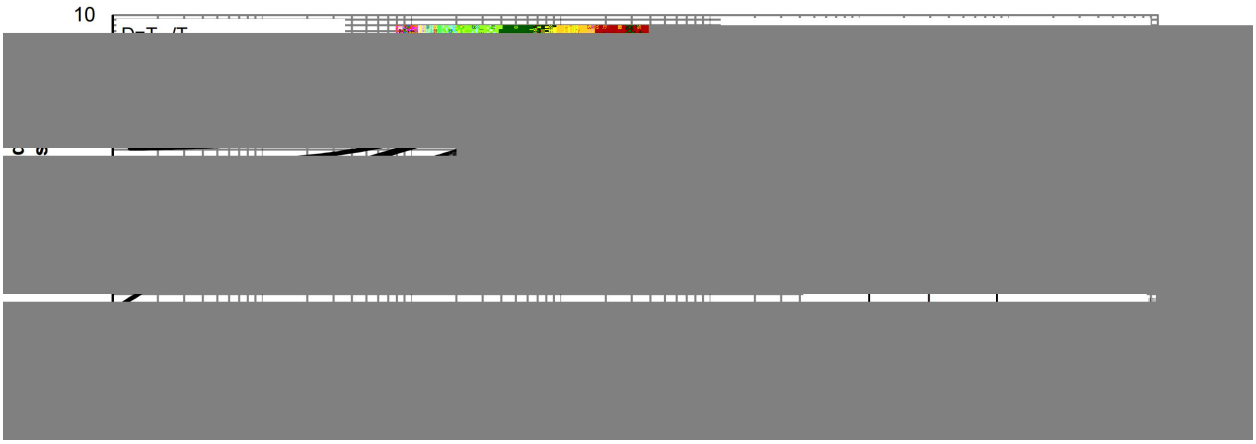




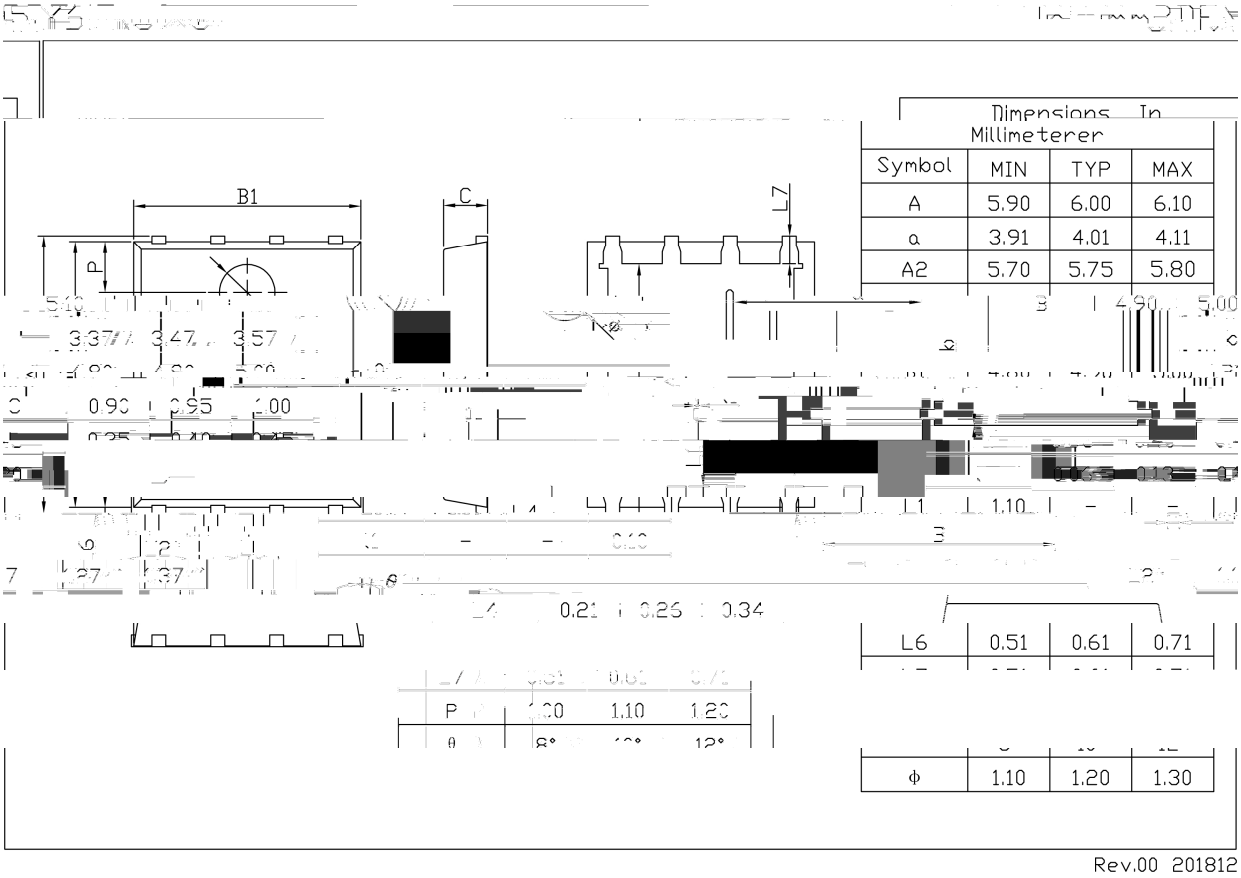
/ Electrical Characteristic Curve



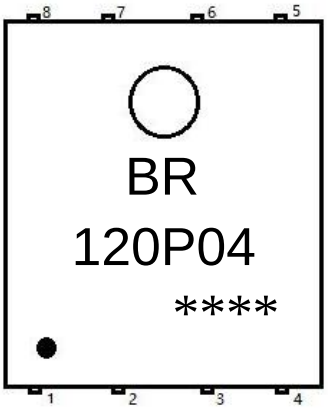




/ Package Dimensions



/ Marking Instructions



说明：

BR： 为公司代码

120P04： 为产品型号

****： 为生产批号代码，随生产批号变化

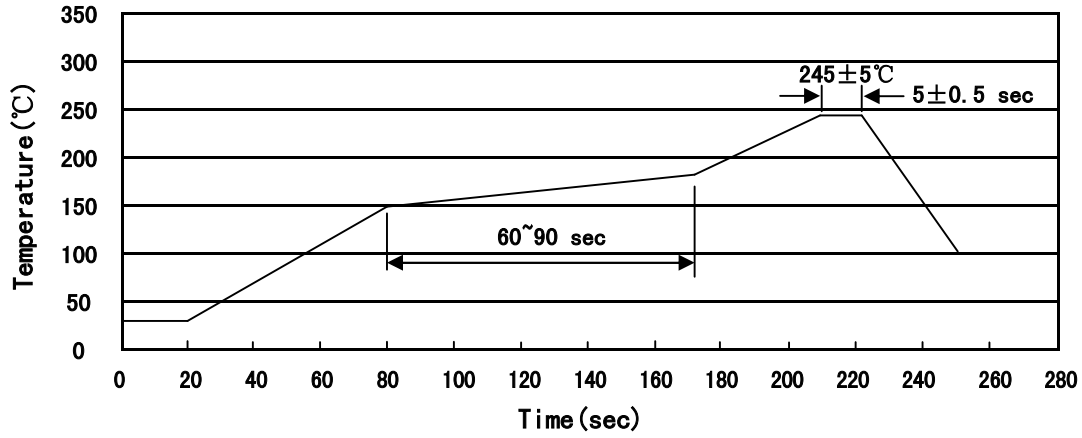
Note：

BR： Company Code

120P04： 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℃, 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
PDFN5 × 6	5000	2	10000	6	60000	13" × 12	360 × 360 × 50	380 × 335 × 366

/ Notices