

/ 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	2021.05.08	All	参照 AOS-AONS18314 规格书首次制定	庞隆基	陈逸晞

/ Descriptions

PDFN5*6 封装 N 沟道场效应管。
N-Channel MOSFET in a PDFN5*6 Plastic Package .

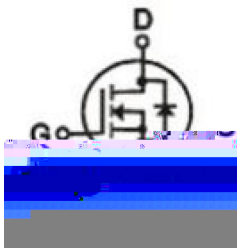
/ Features

低电阻可最大地降低导电损耗，低栅极电荷，可实现快速切换，低热阻，无卤产品。
Low $R_{DS(ON)}$ to minimize conductive loss ,low Gate Charge for fast switching ,Low Thermal resistance, HF Product.

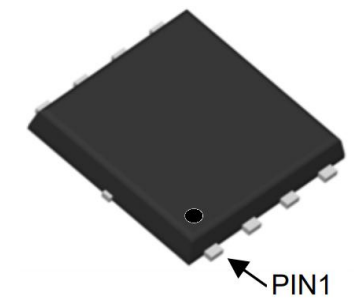
/ Applications

电池管理
Battery Management

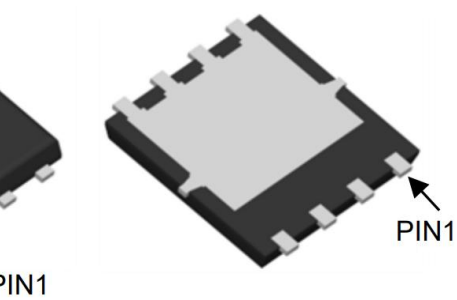
/ Equivalent Circuit



/ Pinning



PIN1、2、3: S



PIN4: G

PIN5、6、7、8: D

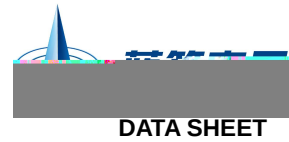
Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D
7	D
8	D

/ h_{FE} Classifications & Marking

见印章说明。See Marking Instructions.

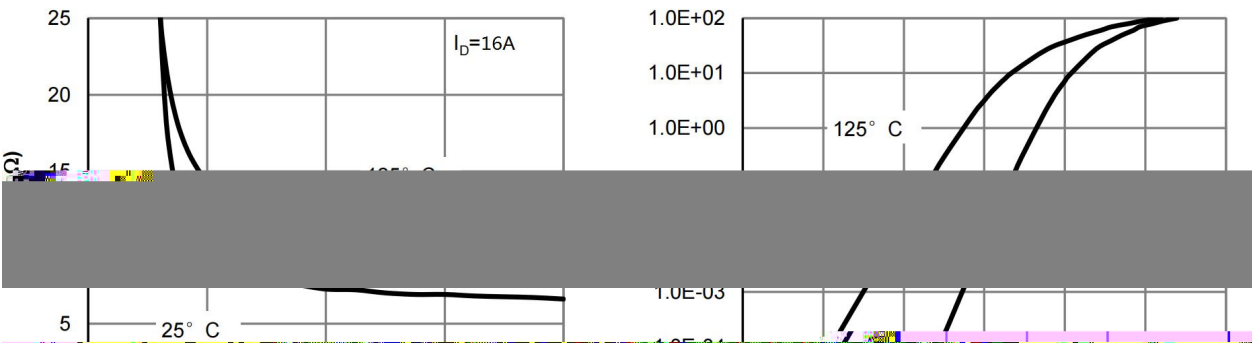
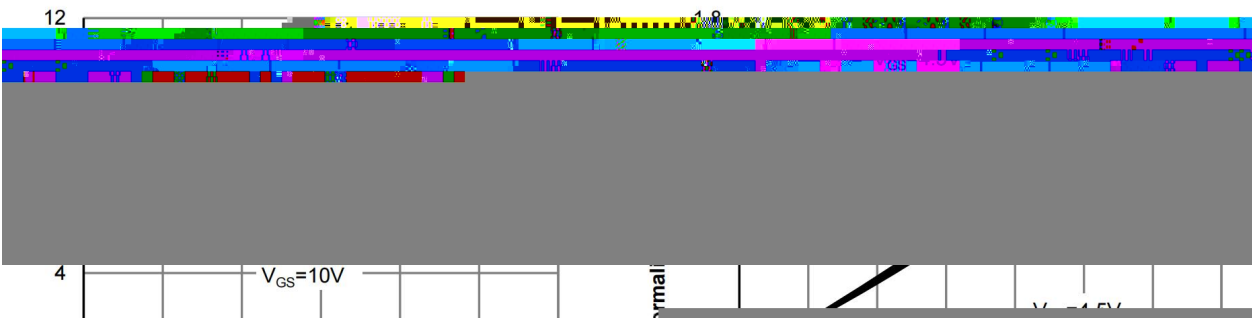
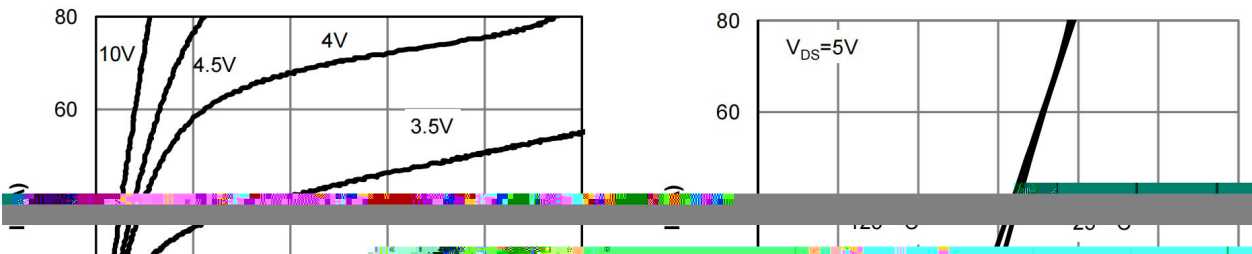
BRCS080N03ZC

Rev.A May.-2021

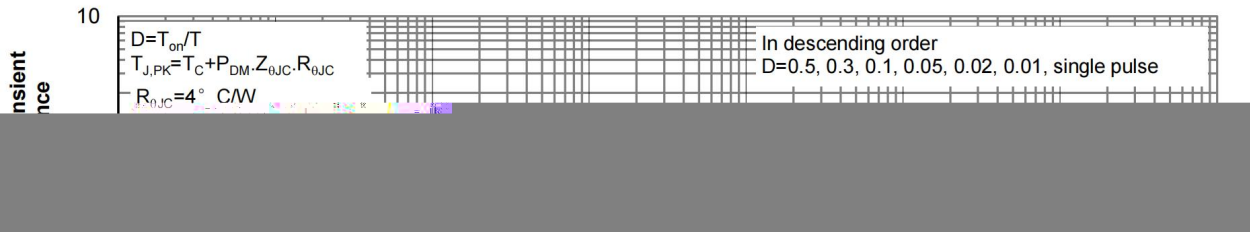
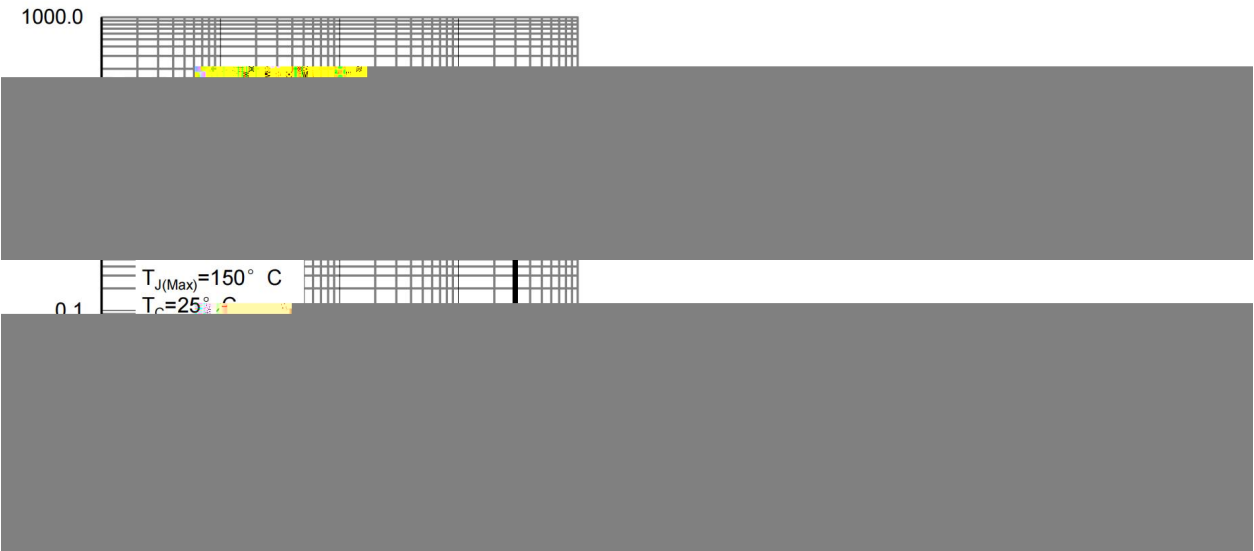
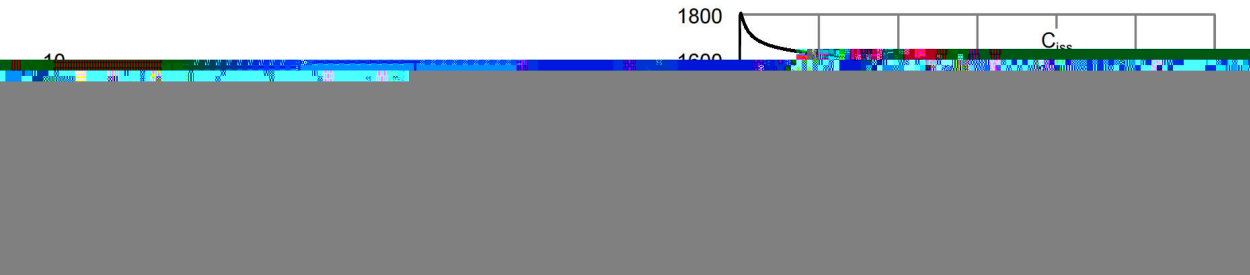


Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Drain Current - Continuous	I_D	30	A
Drain Current – Pulsed	I_{DM}	140	A
Gate-Source Voltage	V_{GS}	20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	31	W
Single Pulse Avalanche Energy(L=0.1mH)	E_{AS}	50	

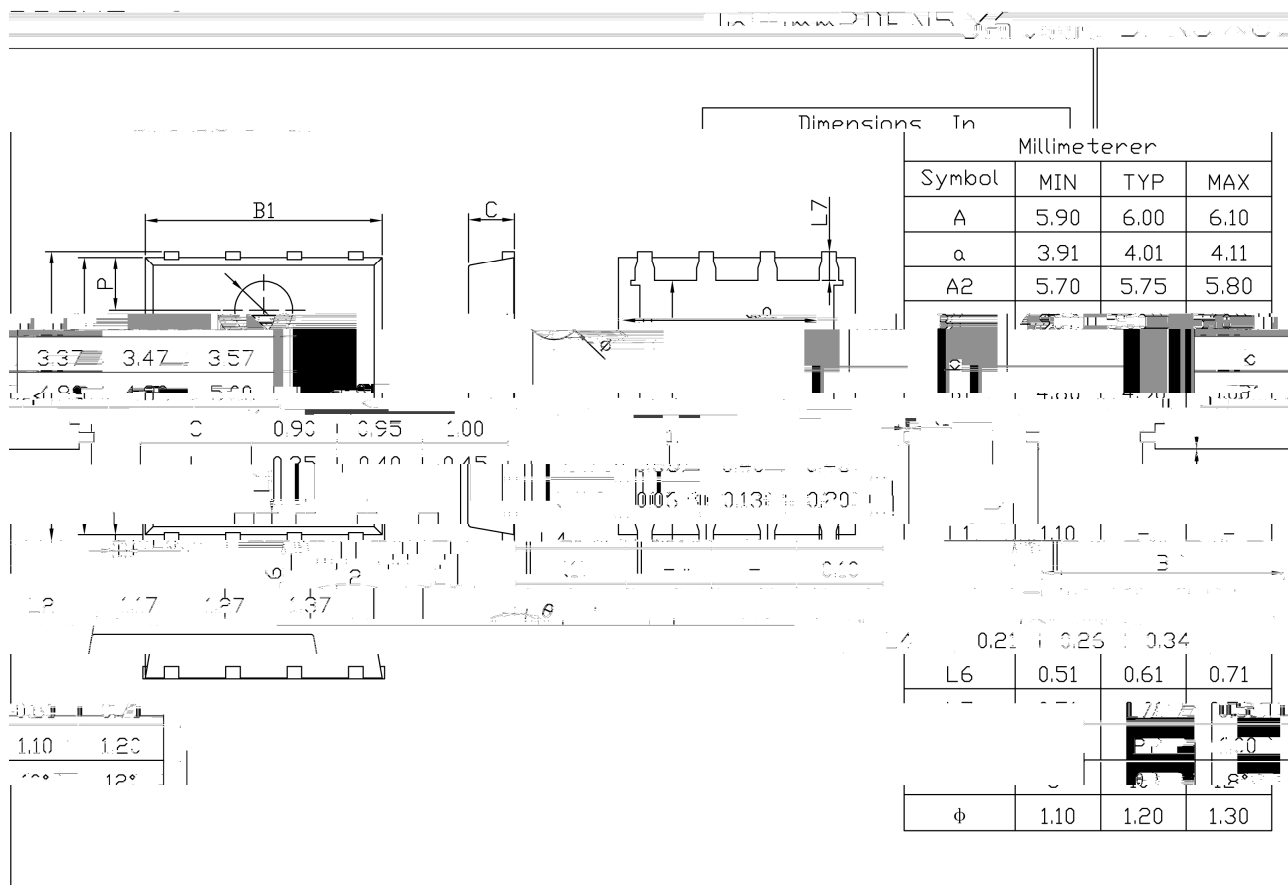
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

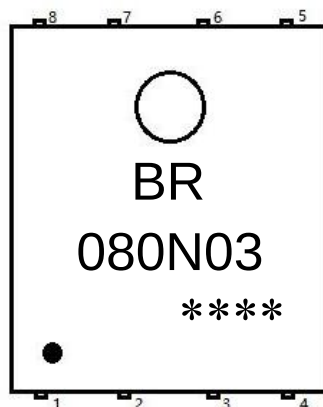


/ Package Dimensions



Rev.00 201812

/ Marking Instructions



说明：

BR： 为公司代码

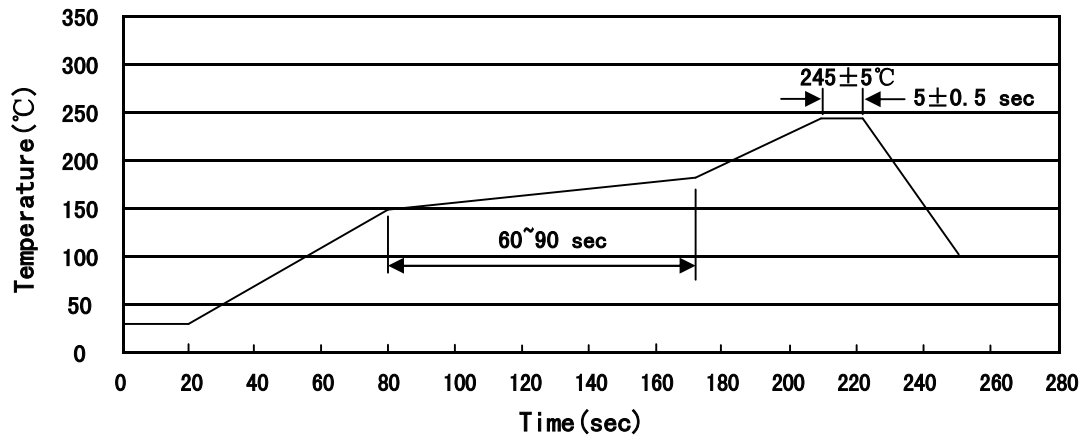
080N03： 为为产品型号

Note：

BR： Company Code

080N03： Product Type.

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



- 1 150 180 □ 60 90sec;
- 2 245±5 □ 5±0.5sec;
- 3 , 2 10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed:10°C/sec.

预

热温 时预

/ Resistance to Soldering Heat Test Conditions

260±5°C



10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

/ REEL

间 持

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