

/ 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	2020.09.11	All	参考 AOS-AONS36302 规格书首次制定	庞隆基	陈逸晞
B	2021.03.03	5	插入 ID-Tc 关系图	庞隆基	陈逸晞

/ Descriptions

PDFN5*6 N
N-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

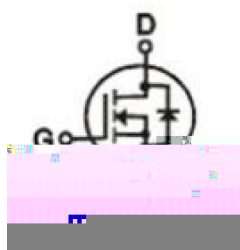
MB/NB/UMPC/VGA

Buck

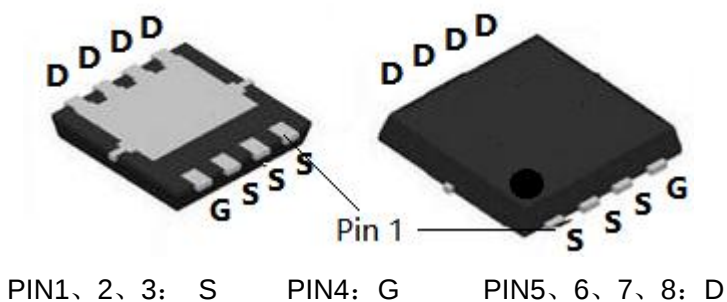
1

Battery Management,High Frequency Point-of-Load Synchronous Buck Converter for MB/NB/UMPC/VGA,Networking DC-DC Power System,Load Switch.

/ Equivalent Circuit



/ Pinning



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

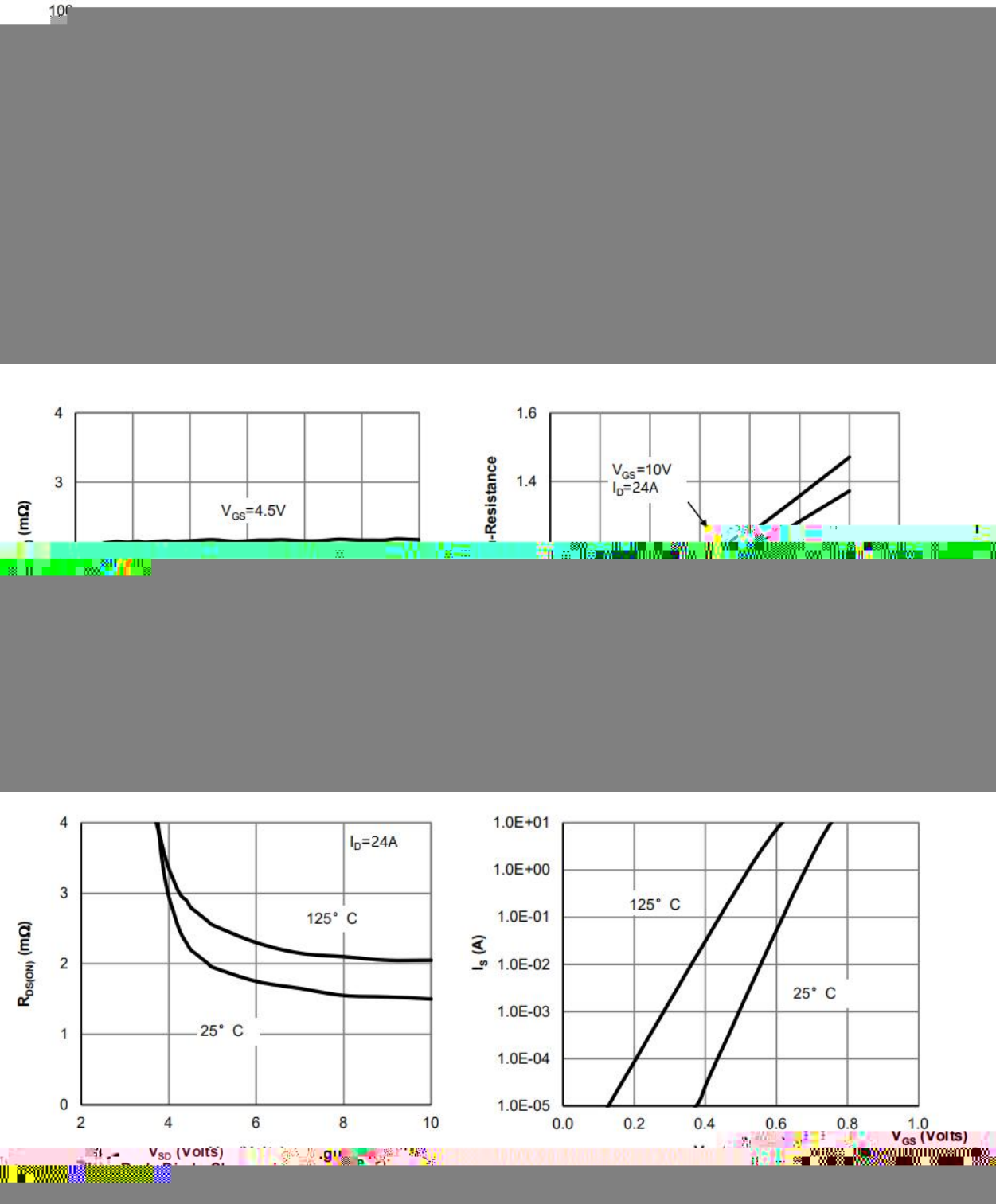
/ h_{FE} Classifications & Marking

见印章说明。See Marking Instructions.

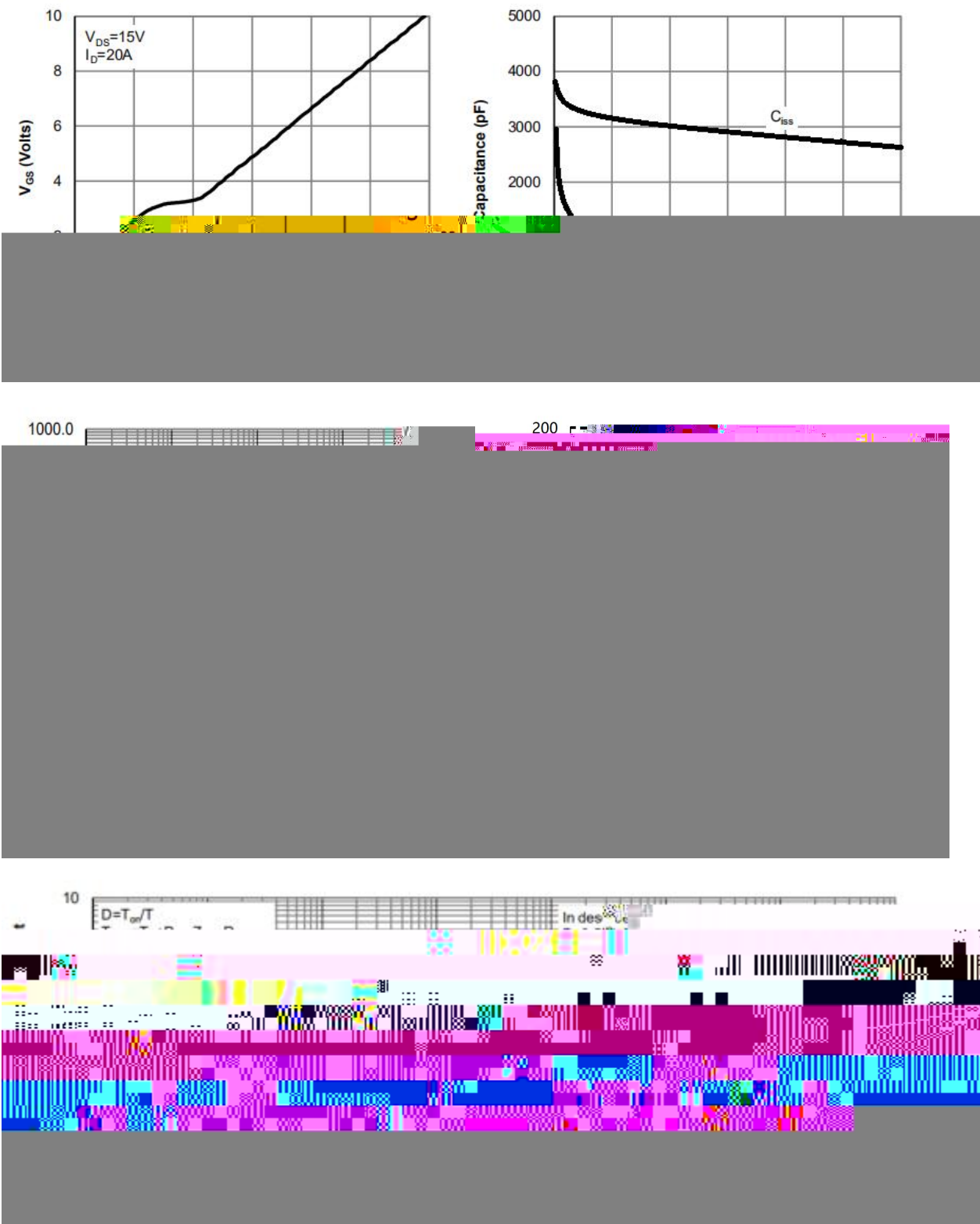
/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=0.75\ \Omega$ $R_{GEN}=3\ \Omega$		12.5		ns
Turn-On Rise Time	t_r			6.0		
Turn-Off Delay Time	$t_{d(off)}$			47		
Turn-Off Fall Time	t_f			10.5		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

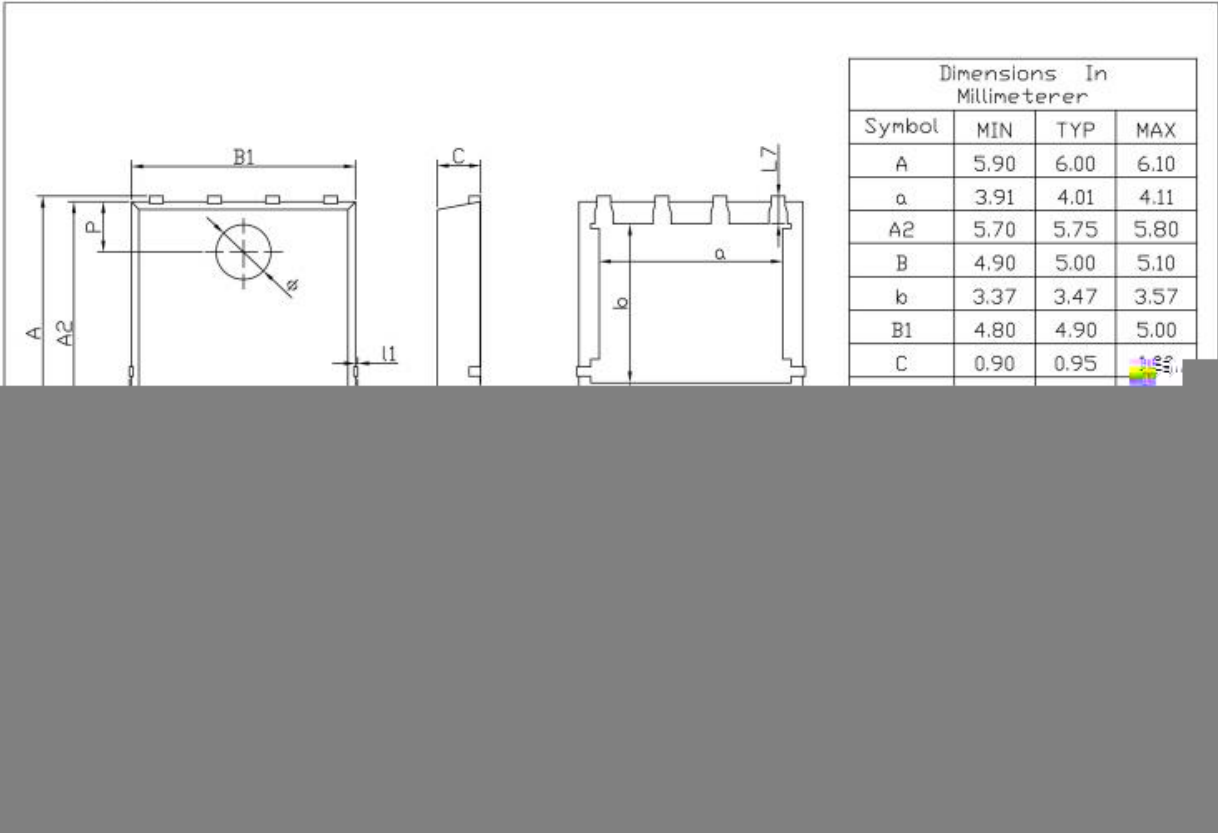


/ Package Dimensions

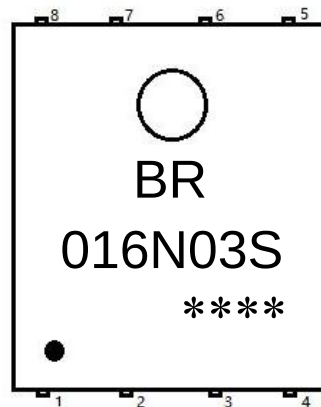
PDFN5×6 外形尺寸图

PDFN5 ×6

Unit:mm



/ Marking Instructions



说明：

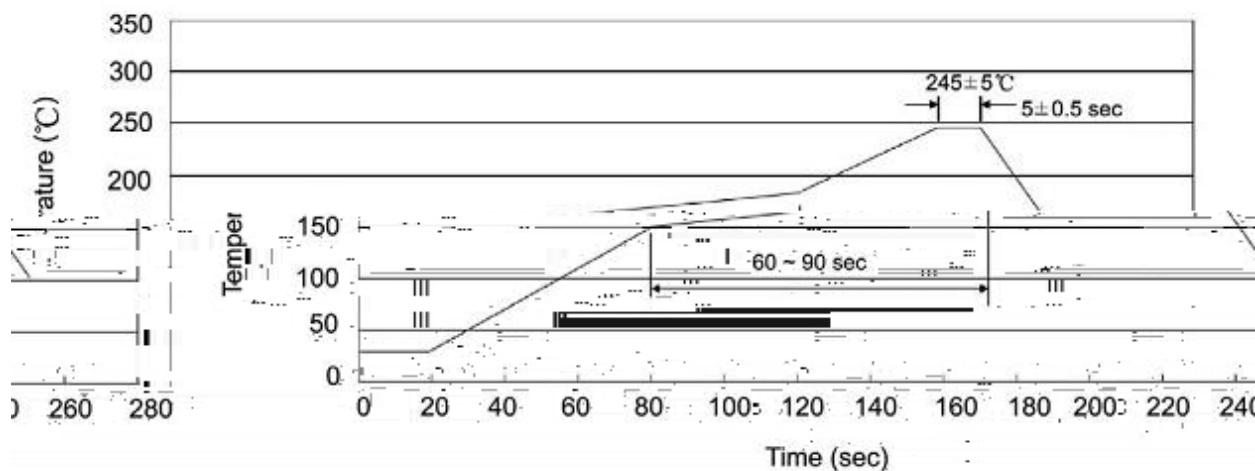
BR： 为公司代码

016N03S： 为为产品型号

Note：

BR： Company Code

016N03S： Product Type.

() / 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)		
	只/卷盘	卷盘/盒	只/盒	盒/箱	只/箱		盒	箱
PDFN5*6	5000	2	10000	6	60000	13" × 12	360 × 360 × 50	380 × 335 × 366

/ Notices