

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 规格书第 4 页		
B	2021.03.01				

描述 / Descriptions

PDFN5*6 N
N-Channel MOSFET in a PDFN5*6 Plastic Package .

特征 / Features

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

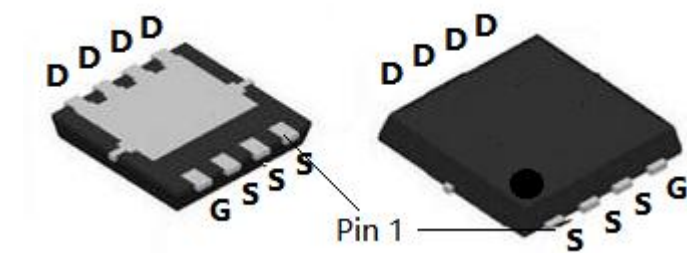
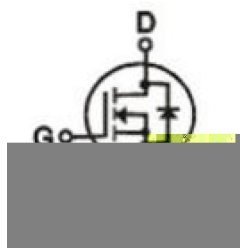
用途 / Applications

MB/NB/UMPC/VGA

Buck

-

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

内部等效电路 / Equivalent Circuit

PIN1、2、3: S PIN4: G PIN5、6、7、8: D

放大及印章代码 / h_{FE} Classifications & Marking

见印章说明。 See Marking Instructions.

BRCS016N03SZC

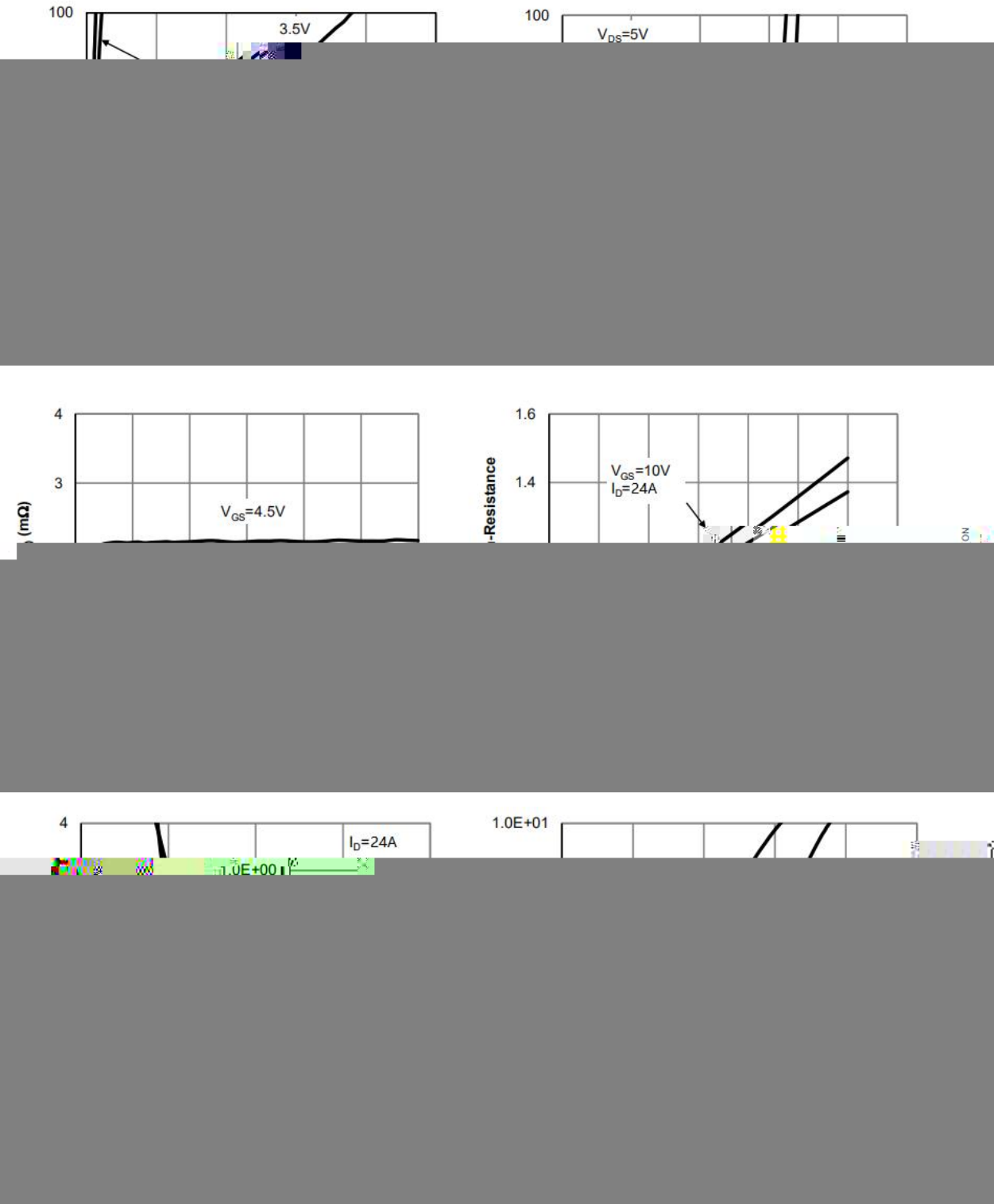
Rev.B Mar.-2021

DATA SHEET

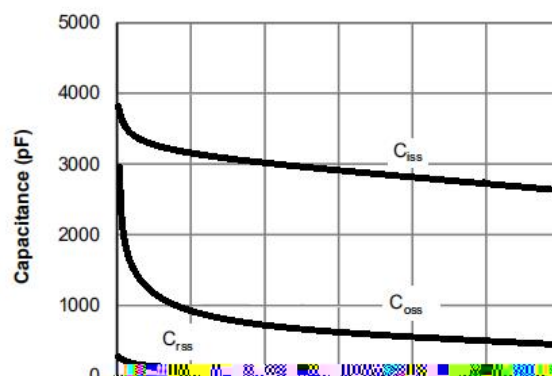
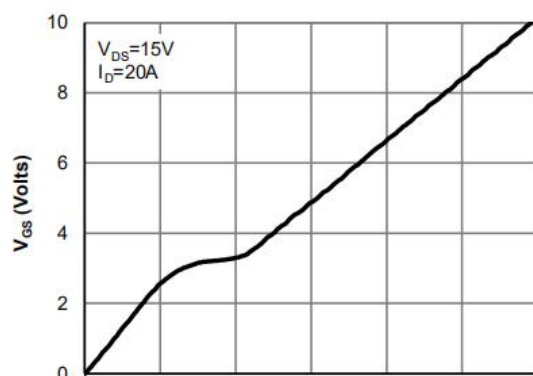
电性能参数 / Electrical Characteristics(Ta=25°C)

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		

电参数曲线图 / Electrical Characteristic Curve



电参数曲线图 / Electrical Characteristic Curve



1000.0

200



10

$D = T_{on}/T$

In des...

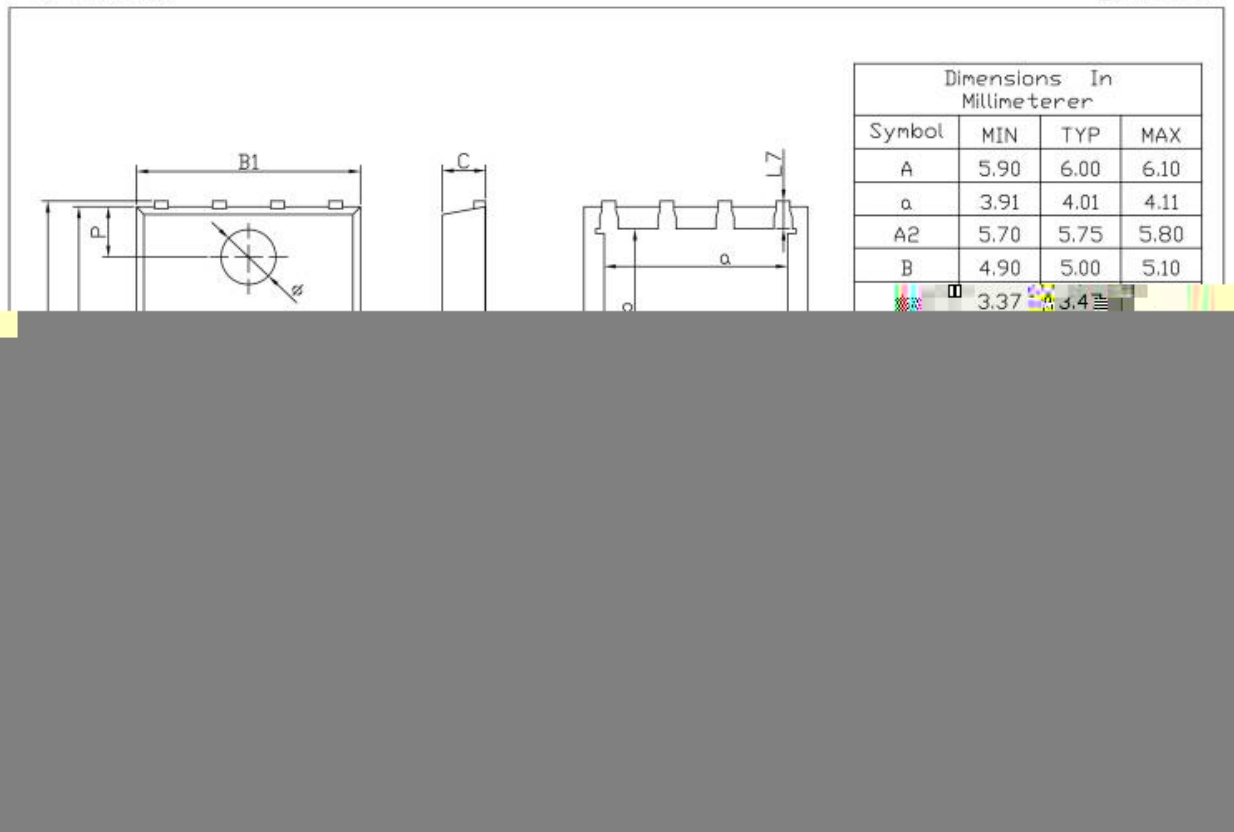


外形尺寸图 / Package Dimensions

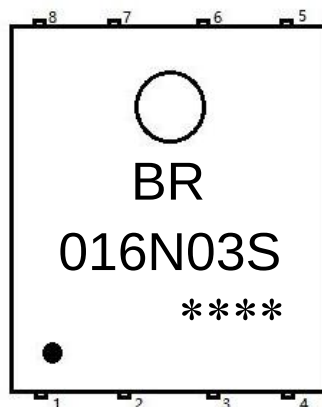
PDFN5×6 外形尺寸图

PDFN5×6

Unit:mm



印章说明 / Marking Instructions



说明：

BR： 为公司代码

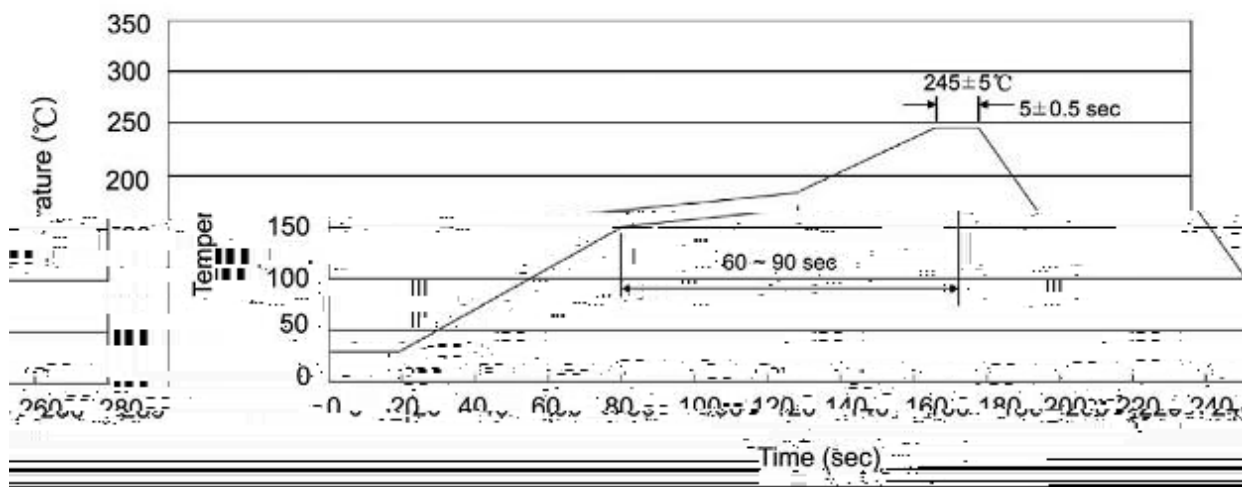
016N03S： 为为产品型号

Note：

BR： Company Code

016N03S： Product Type.

回流焊温度曲线图(无铅) / 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. |

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5℃ Time:10±1 sec

包装规格 / Packaging SPEC.

/ REEL

Package Type	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			
PDFN5*6	5000	2	10000	6	60000	13" × 12	360 × 360 × 50	380 × 335 × 366

使用说明 / Notices