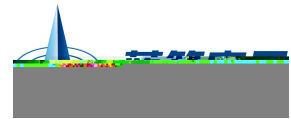


**/ Revised record**

A			AOS-AOT2144L		

# BRCS020N03RA

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DATA SHEET

/ DeR

2

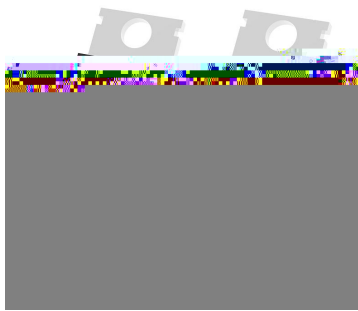
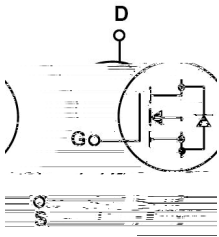
TO-220 N

N-CHANNEL MOSFET in a TO-220 Plastic Package.

Ultra Low On-Resistance,fast switching.

## PFC

These devices are well suited for high efficient switched mode power supplies, Active power factor correction, electronic lamp ballast based on half bridge topology.



PIN1 G

PIN 2 4 D

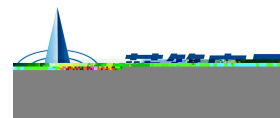
PIN 3 S

## / Marking

See Marking Instructions.

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DATA SHEET

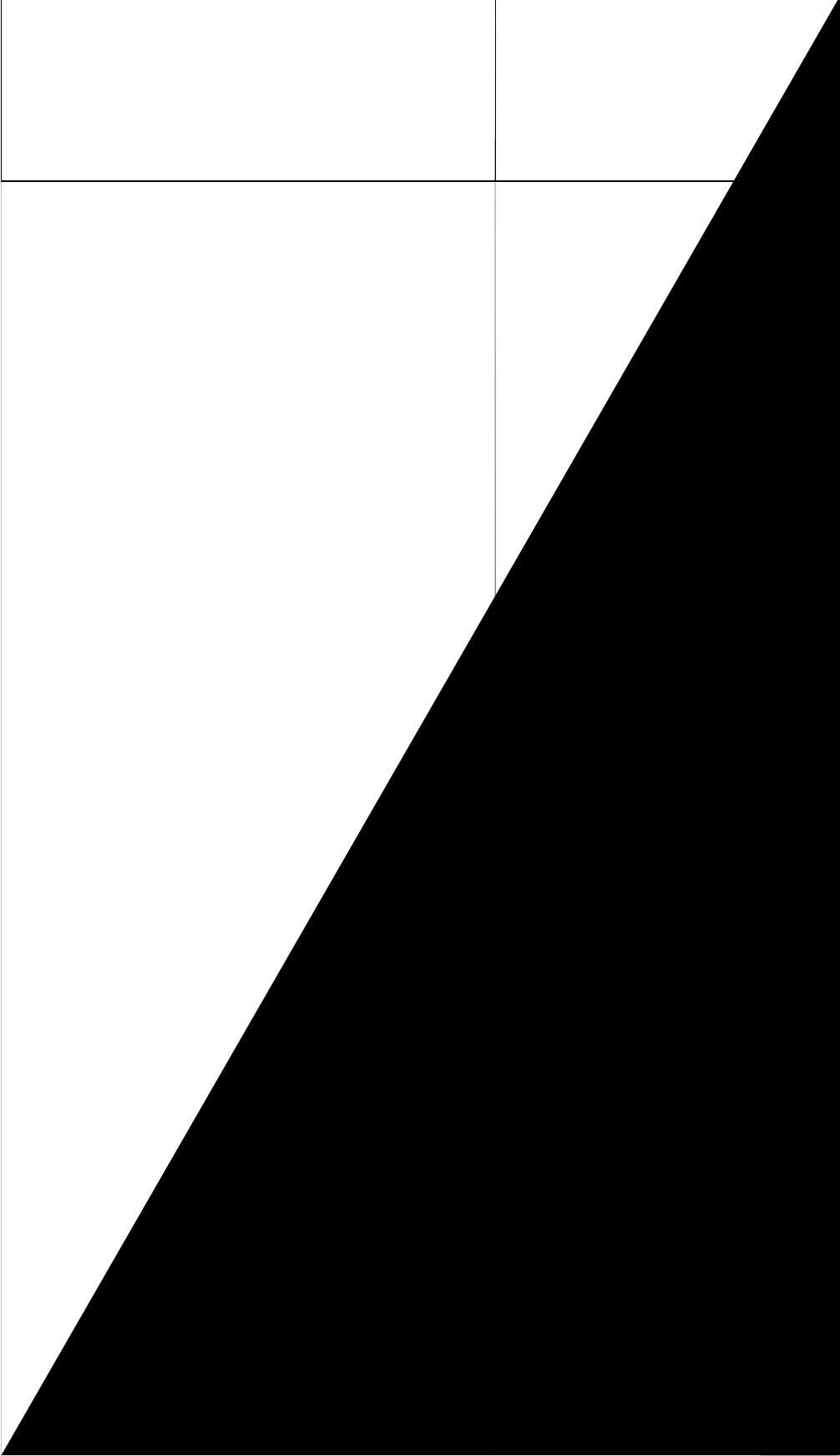
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	$V_{DS}$	30	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	217	A
Pulsed Drain Current .	$I_{DM}$	770	A
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Single Pulsed Avalanche Energy L=0.5mH	$E_{AS}$	590	mJ

1002

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**DATA SHEET**



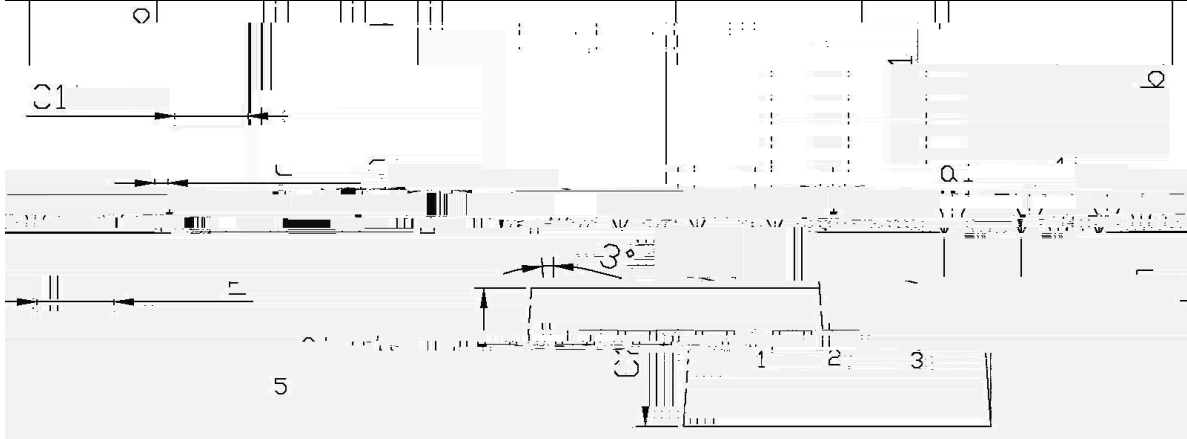
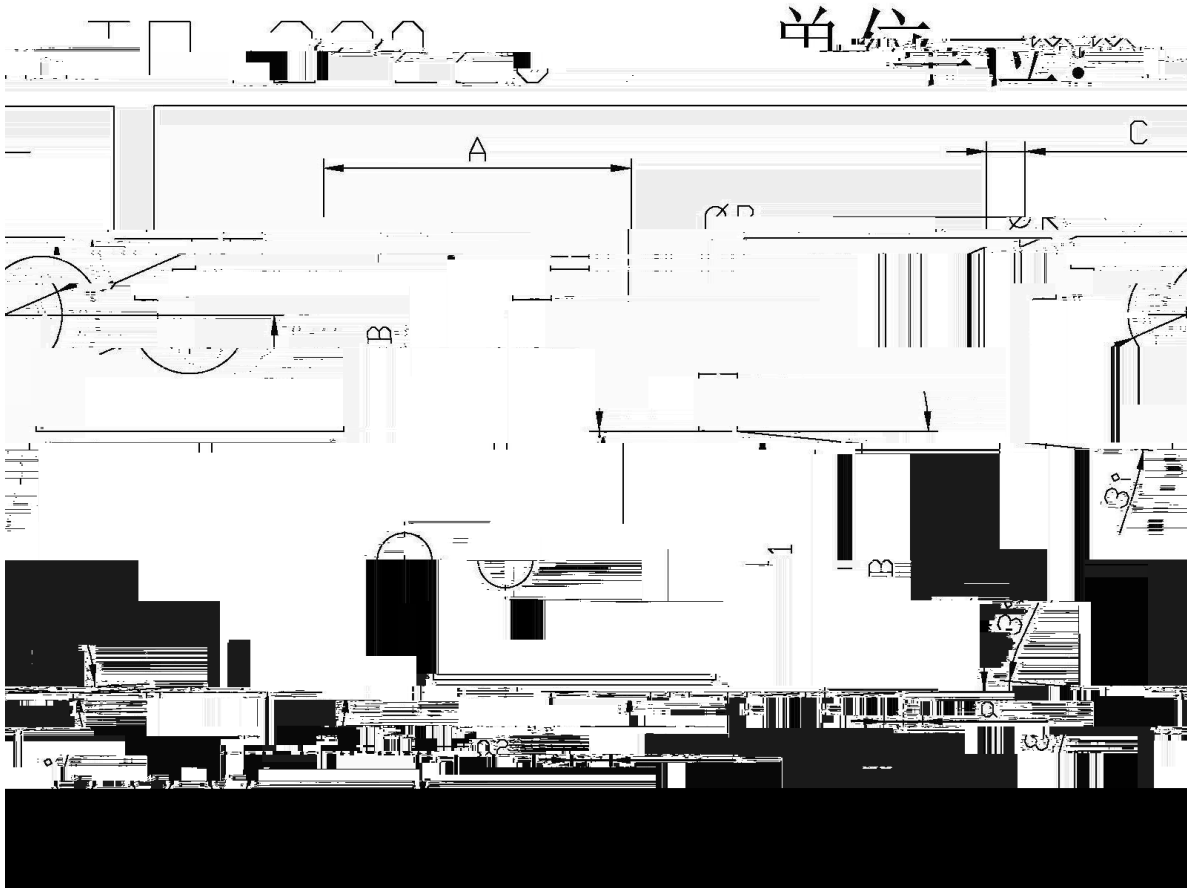
http://

**BRCS020N03RA**

Rev.A J

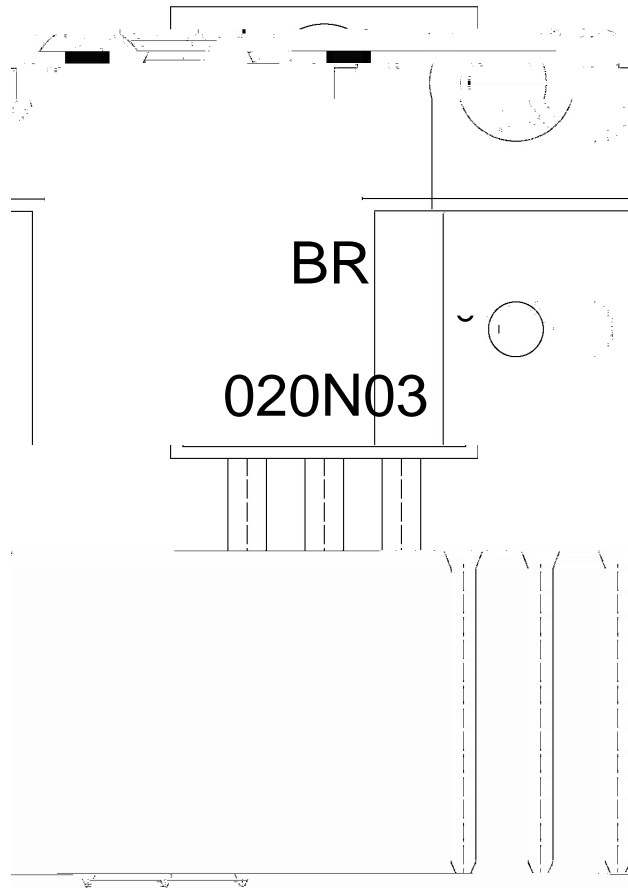


**/ Package Dimensions**



Dimensions in Millimeters		Dimensions in Inches	
Min	Max	Min	Max
9.8	10.2	1.2	1.4
9.5	9.6	1.63	1.67
15.7	16.1	19.0	19.4
12.6	13.6	1.61	2.2
13.6	14.1	1.7	2.5
2.4	3.2	0.4	0.6
1.2	1.4	0.45	0.6

**/ Marking Instructions**



说明：

BR： 为公司代码

020N03： 为型号代码

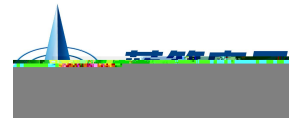
\*\*\*\*： 为生产批号代码，随生产批号变化

Note:

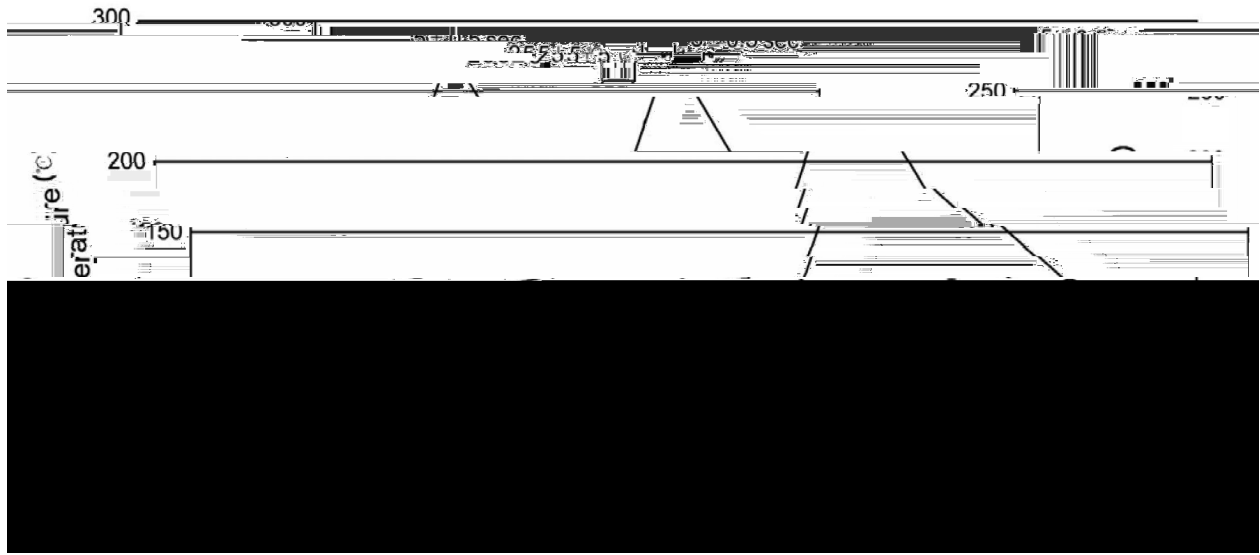
BR: Company Code

020N03: Product Type

\*\*\*\*: Lot No. Code, code change with Lot No



**( ) / Temperature Profile for Dip Soldering(Pb-Free)**



- |   |       |     |           |        |       |  |
|---|-------|-----|-----------|--------|-------|--|
| 1 | 25    | 150 | 60        | 90sec; | Note: | 1.Preheating:25~150°C, Time:60~90sec.    |
| 2 | 255±5 |     | 5±0.5sec; |        |       | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. |
| 3 |       | 2   | 10°C/sec. |        |       | 3. Cooling Speed: 2~10°C/sec.            |

**/ Resistance to Soldering Heat Test Conditions**

270±5°C                      10±1 sec.                      Temp.:270±5°C                      Time:10±1 sec

**/ Packaging SPEC.**

/ BULK

Package Type	Units				Dimension (unit mm <sup>3</sup> )		
	mm	mm	mm	mm	mm	mm	mm