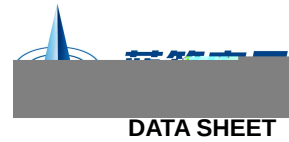


BRCS150N10SRA

Rev.A Nov.-2021



A	2021.11.27	All	AOS-AOT412		

/ Descriptions

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

/ Features

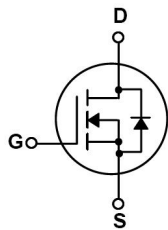
Ultra Low On-Resistance,fast switching.

/ Applications

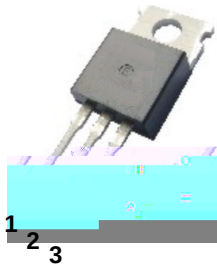
PFC

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

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 4 D PIN 3 S

/ Marking

See Marking Instructions.

BRCS150N10SRA

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3$		7		ns
Turn-On Rise Time	t_r			3		
Turn-Off Delay Time	$t_{d(off)}$			27		
Turn-Off Fall Time	t_f			4		



/ Electrical Characteristic Curve

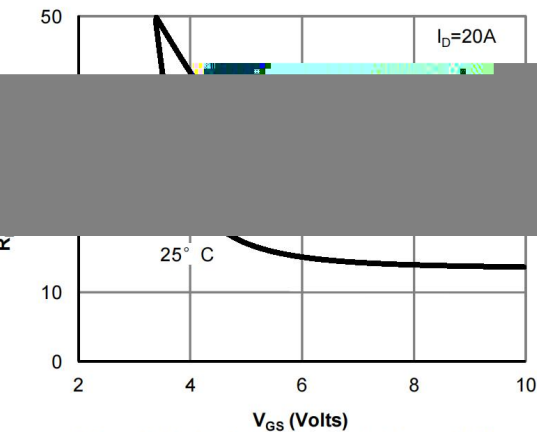
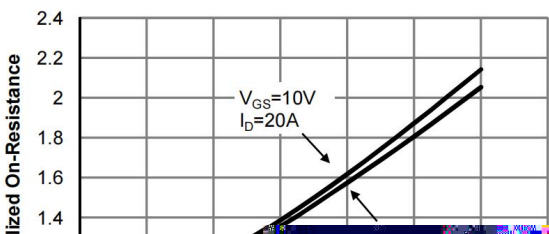
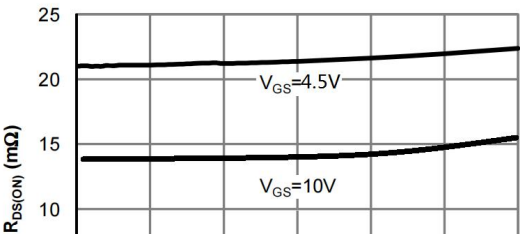


Figure 5: On-Resistance vs. Gate-Source Voltage

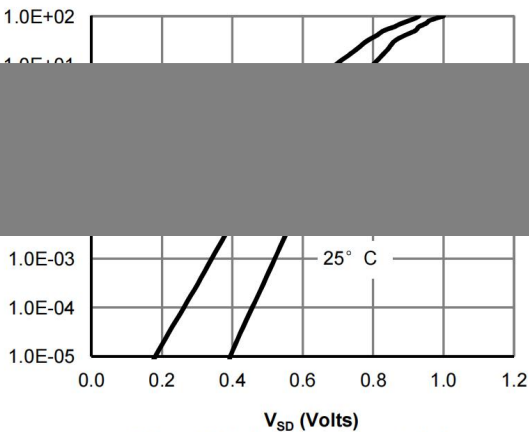
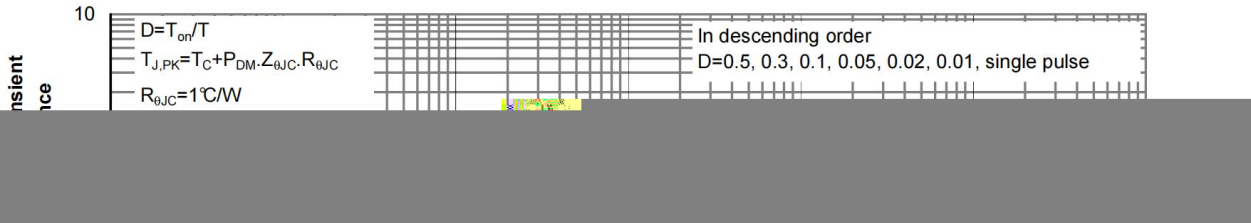
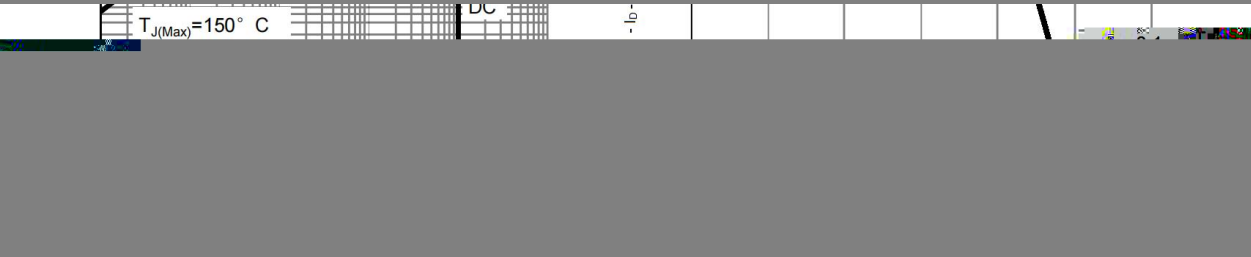


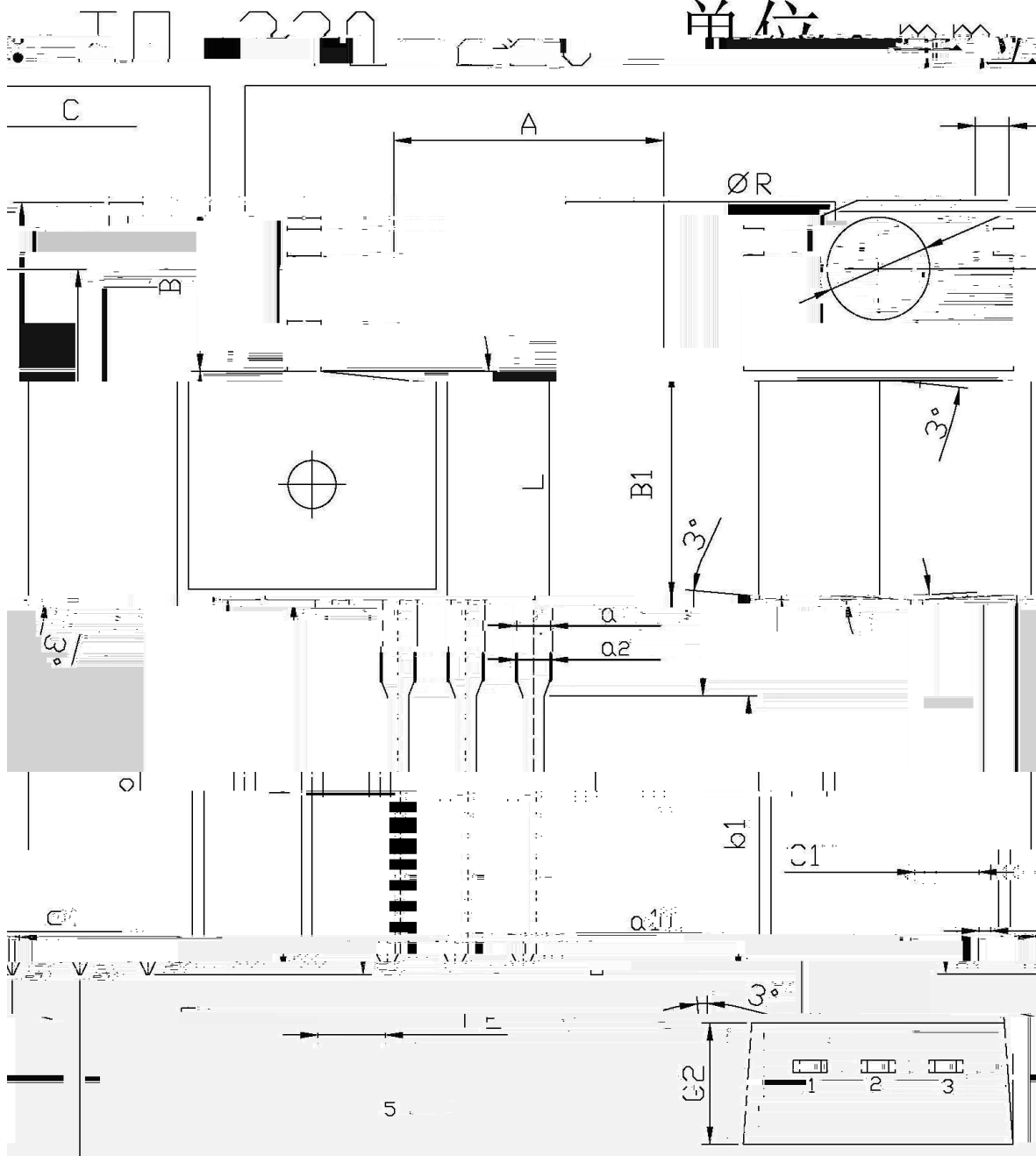
Figure 6: Body-Diode Characteristics



/ Electrical Characteristic Curve

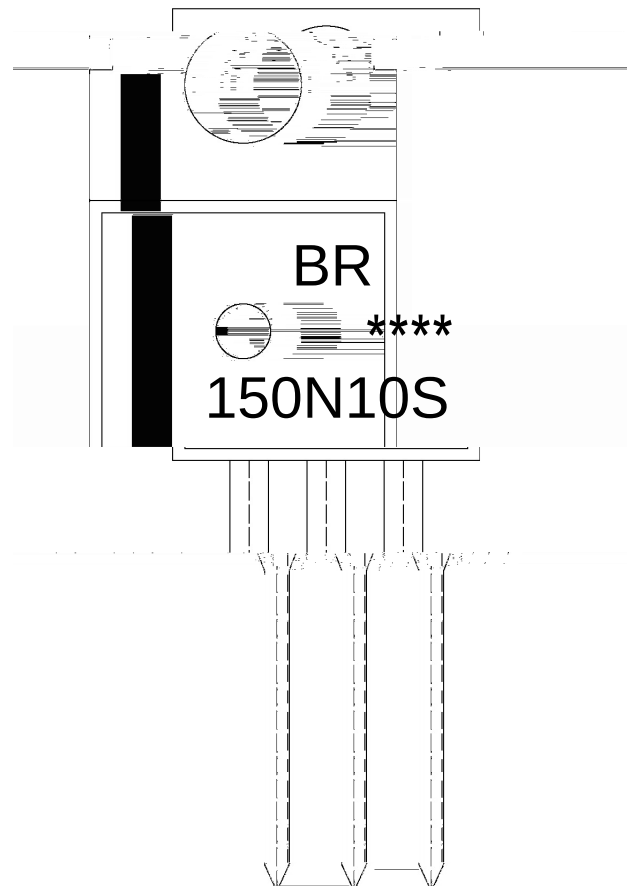


单位



Symbol		Dimensions in Millimeters		Symbol		Dimensions in Millimeters	
Max	Min	Max	Min	Max	Min	Max	Min
1.4	0.7	9.8	3.56	10.2	3.64	12	6.3
15.7	12.6	16.1	13.6	19.0	16.0	9.4	7.6
9.6	6.6	10.6	8.1	11.7	9.7	13.3	10.4
1.25	0.7	1.45	0.7	1.45	0.7	1.45	0.7

/ Marking Instructions



说明：

BR： 为公司代码

150N10S： 为型号代码

****： 为生产批号代码，随生产批号变化

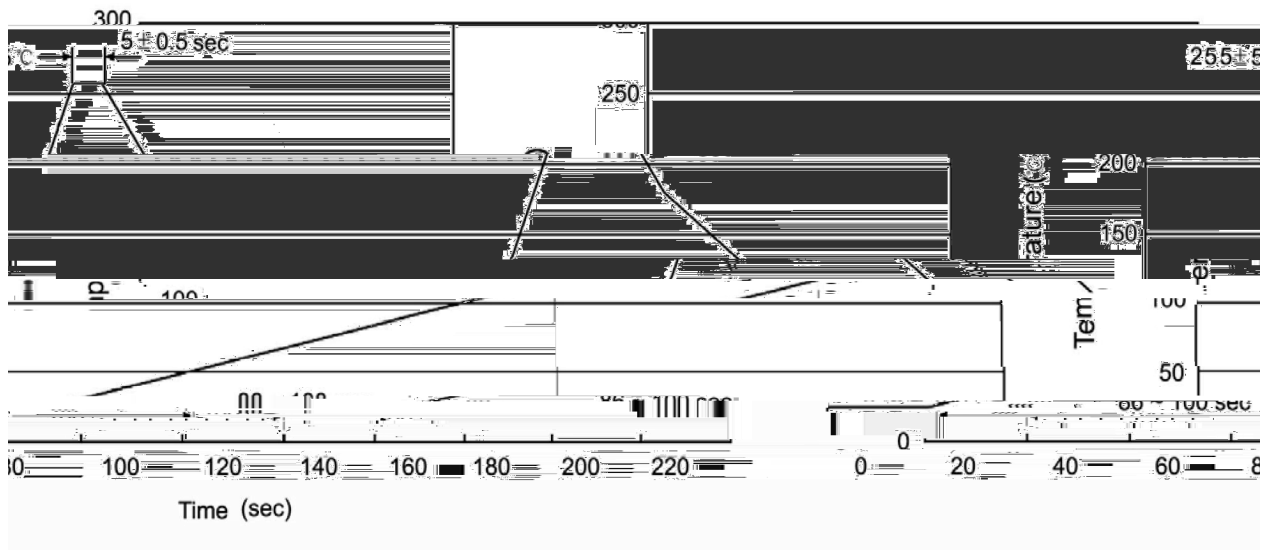
Note:

BR: Company Code

150N10S: Product Type

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

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



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|--|
| 1 | 25 | 150 | 60 | 90sec; | 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 封装形式	Units/Bag 只/	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)
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