

BRCS020N03RA

Rev.A Jun.-2022

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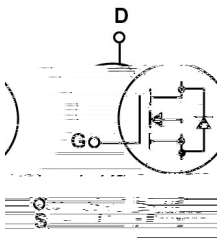
TO-220 N

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}	± 20	V
Single Pulsed Avalanche Energy L=0.5mH	E_{AS}	590	mJ

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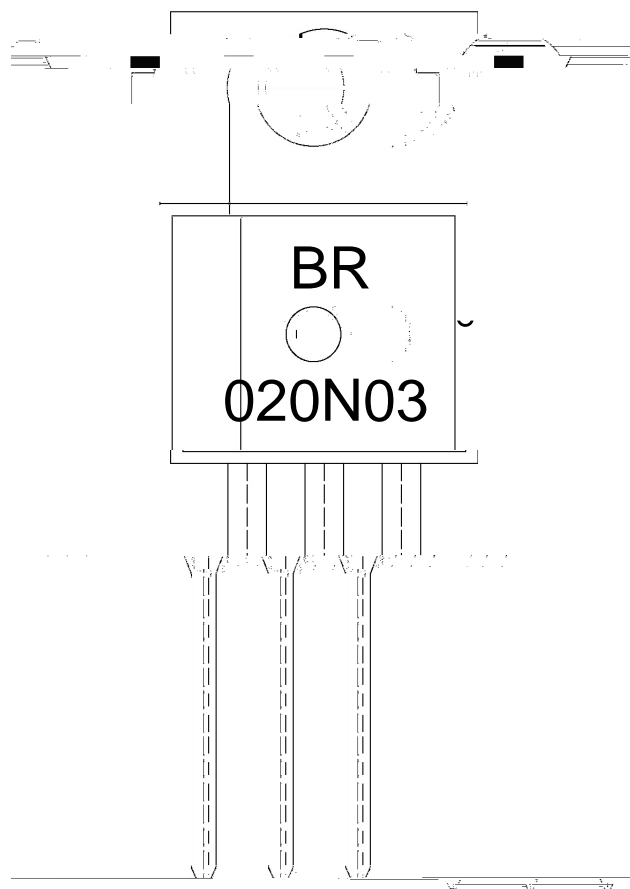
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DATA SHEET

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/ 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:

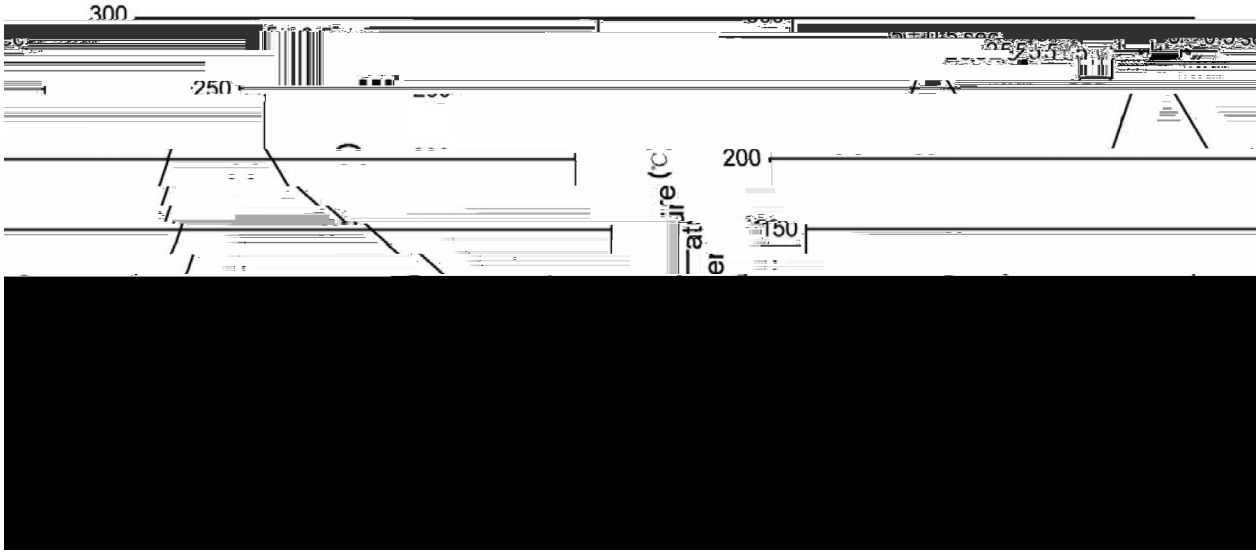
BR: Company Code

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 ³)		
	mm	mm	mm	mm	mm	mm	mm