

/ 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	2022.7.5	全部	参考 AOS-AON2812和 AOS-AON2260(SOA,RJA)首次 创建 	庞隆基	陈逸晞

/ Descriptions

DFN 2×2C-6L 塑封封装 N+N 沟道 MOS 场效应管。

Double N+N-CHANNEL MOSFET in a DFN 2×2C-6L Plastic Package.

/ Features

$V_{DS} (V) = 30V$

$I_D = 6.3A (V_{GS} = \pm 20V)$

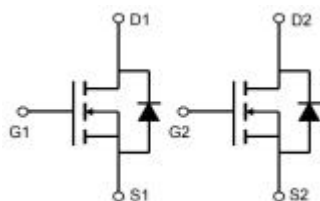
无卤产品。HF Product.

/ Applications

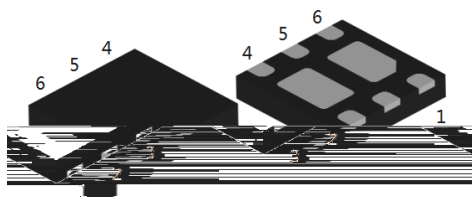
电池保护开关，移动设备电池充放电，负载开关。

Battery protection switch, Mobile device battery charging and discharging, Load switch.

/ Equivalent Circuit



/ Pinning



出脚	定义
PIN 1	S1
PIN 2	G1
PIN 3	D2
PIN 4	S2
PIN 5	G2
PIN 6	D1

/ Marking

见印章说明 See Marking Instructions.



Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DSS}	30	V
Gate-Source Voltage		V_{GSS}	± 20	V
Continuous Drain Current		$I_D (T_a=25^\circ\text{C})$	6.3	A
Pulsed Drain Current		I_{DM}	25	A
Power Dissipation for Single Operation		$P_D (T_a=25^\circ\text{C})$	2.8	W
Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +150	
Maximum Junction-to-Ambient	$t \leq 10\text{s}$	$R_{\theta JA}$	44.6	mW
	Steady-State	$R_{\theta JA}$	71.4	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	30	35		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=30V$ $V_{GS}=0V$			1.0	μA
Gate-Body leakage current	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	1.0	1.7	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=9A$		20	22	m Ω
		$V_{GS}=4.5V$ $I_D=7A$		31	35	m Ω
Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=1.0A$			1.2	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $f=1.0MHz$ $V_{GS}=0V$		690		pF
Output Capacitance	C_{oss}			200		pF
Reverse Transfer Capacitance	C_{rss}			130		pF

BRCS200N03YN

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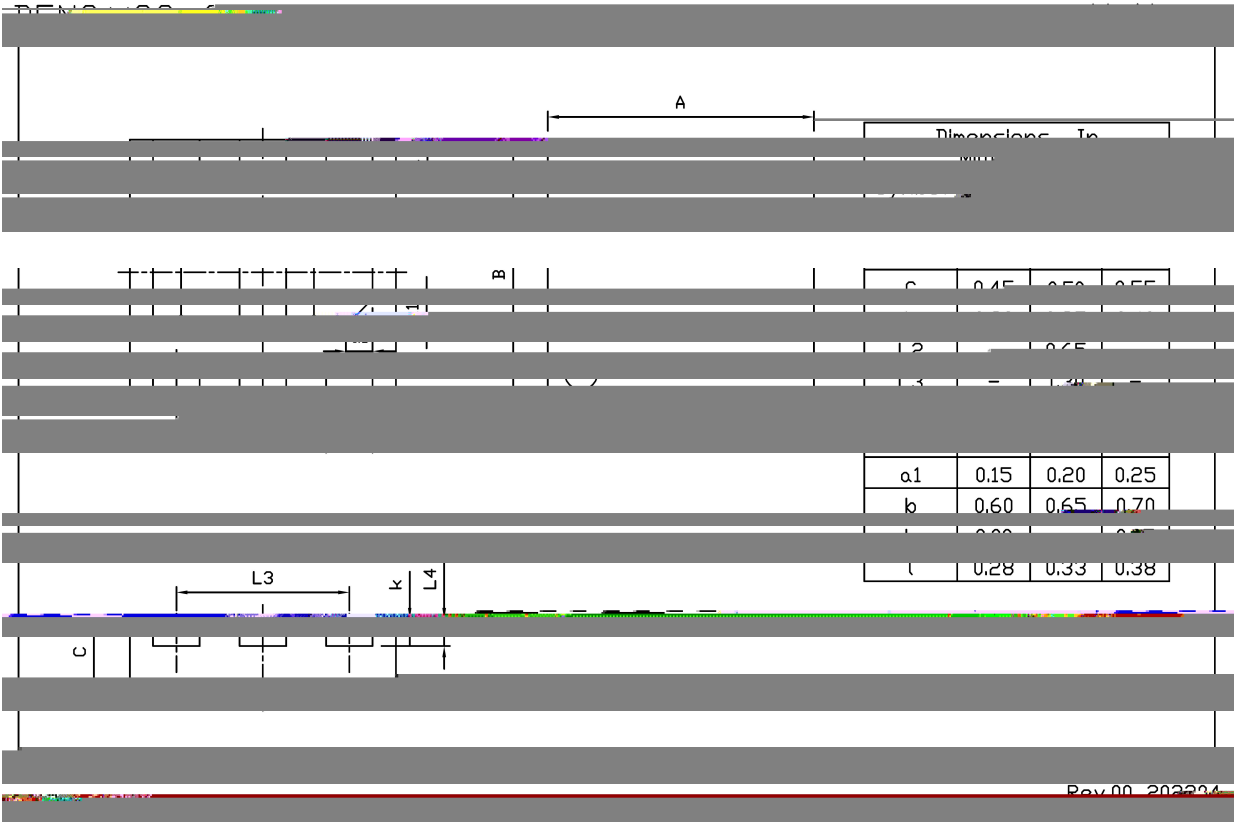
DATA SHEET

BRCS200N03YN

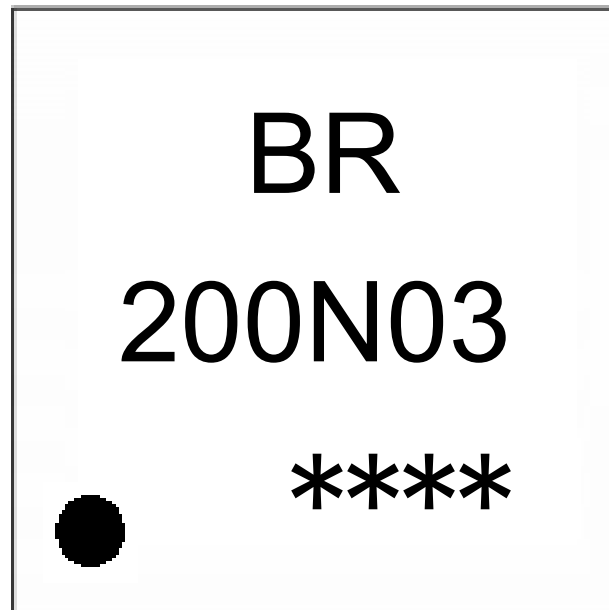
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DATA SHEET

/ Package Dimensions



/ Marking Instructions



BR

200N03

Note:

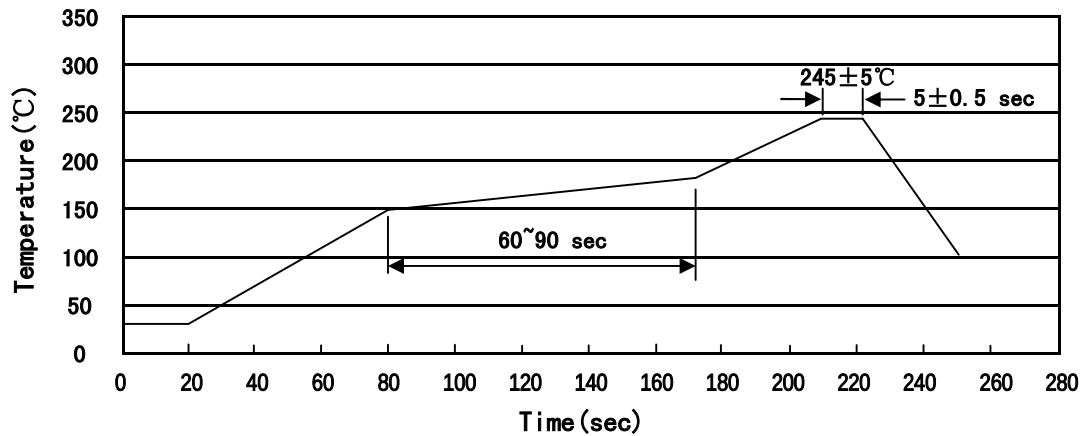
BR: Company Code

200N03: Product Type

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



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Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
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/ Notices