

BRCS030N04YBQ

Rev.A Nov.-2023

/ Descriptions

PDFN 3×3A-8L N MOS

N-Channel Enhancement Mode Field Effect Transistor in a PDFN3×3A-8L Plastic Package.

/ Features

$V_{DS} (V) = 40V$

$I_D = 82A (V_{GS} = \pm 20V)$

$R_{DS(ON)} @ 10V \ 3m\Omega (Typ. 2.5m\Omega)$

$R_{DS(ON)} @ 4.5V \ 5m\Omega (Typ. 3.5m\Omega)$

AEC-Q101

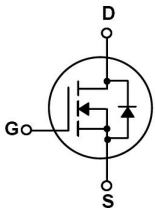
Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

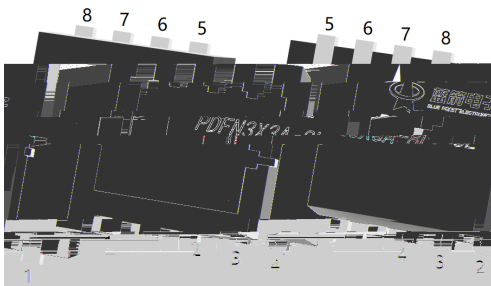
/ Applications

Load Switch Applications, Battery Power Management, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



出脚	定义
Pin1	S
Pin2	S
Pin3	S
Pin4	S
Pin5	S
Pin6	S
Pin7	S
Pin8	S

/ Marking

See Marking Instructions.

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DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	PCN	TA	Ty	DP
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/ Electrical Characteristic Curve

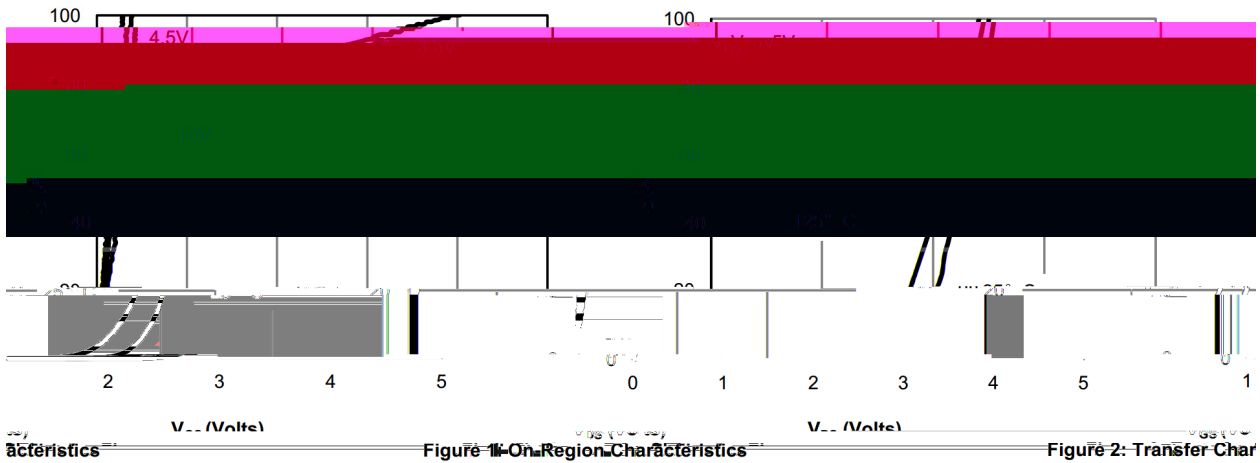


Figure 1: On-Region Characteristics

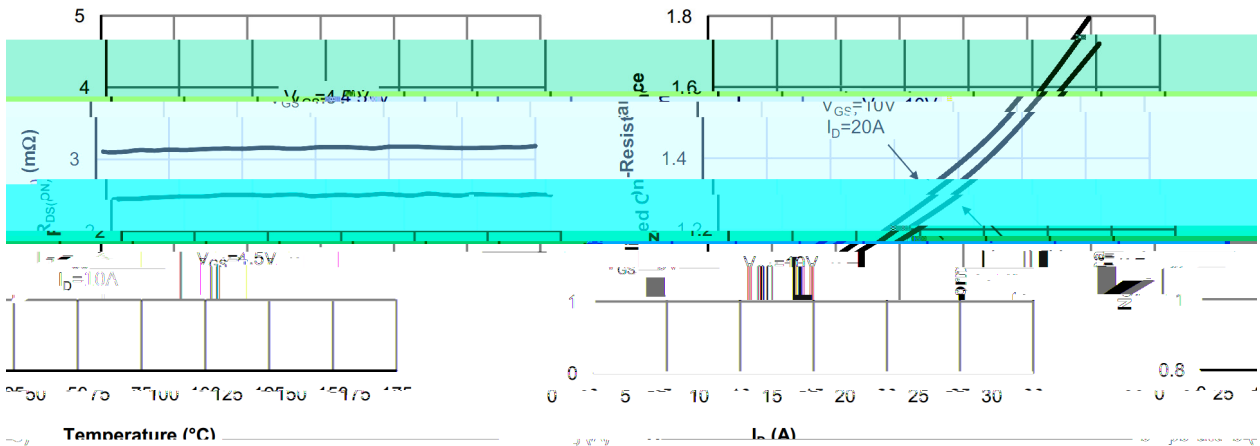


Figure 2: Transfer Characteristics

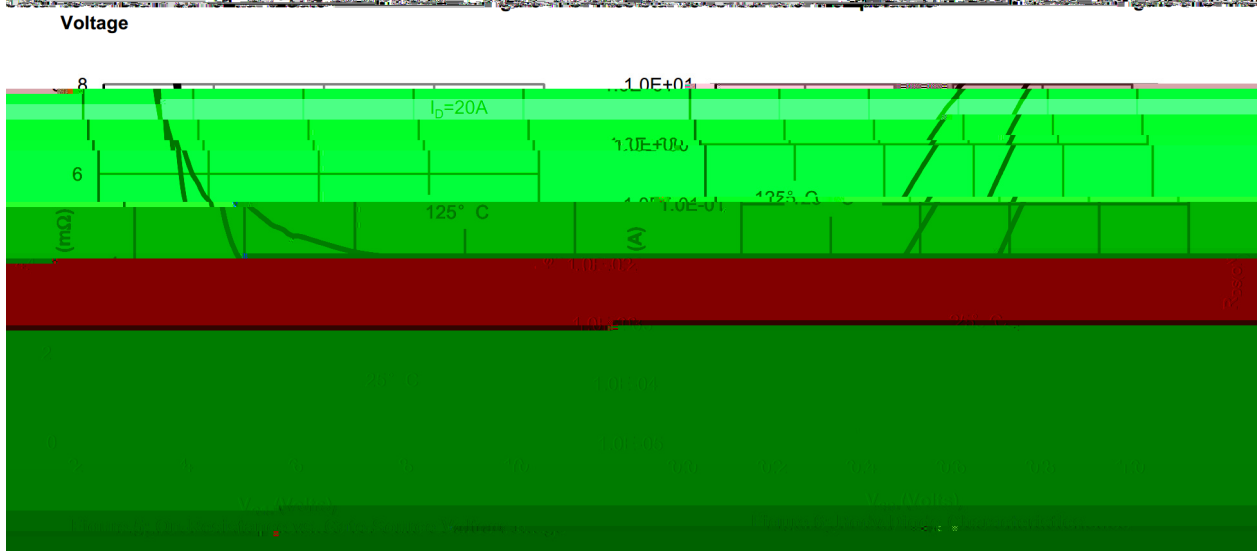
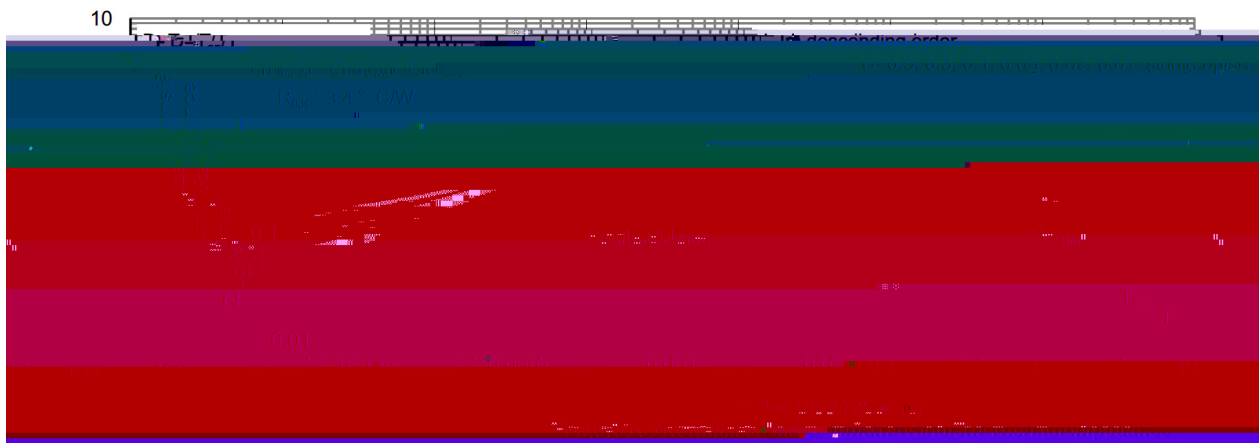
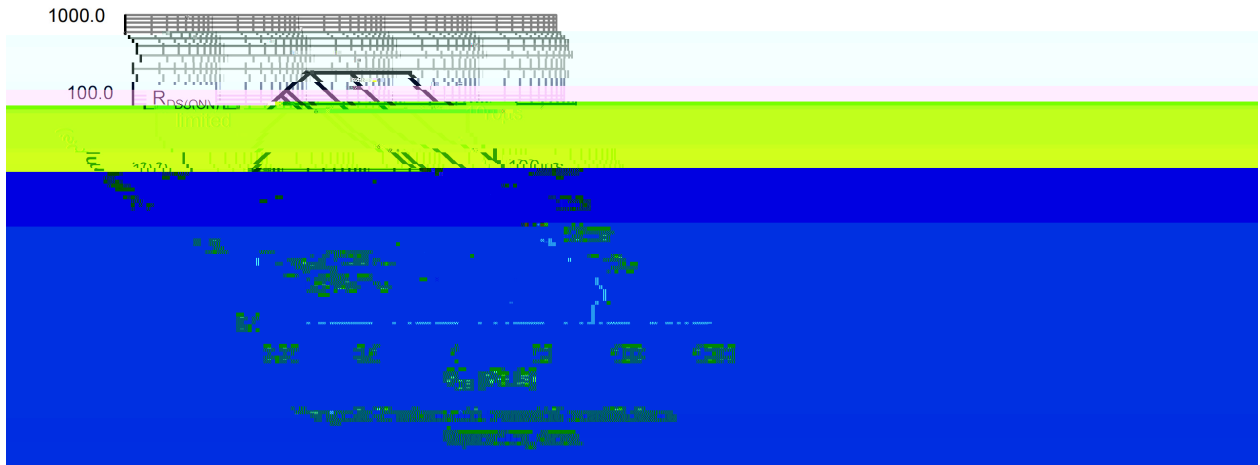
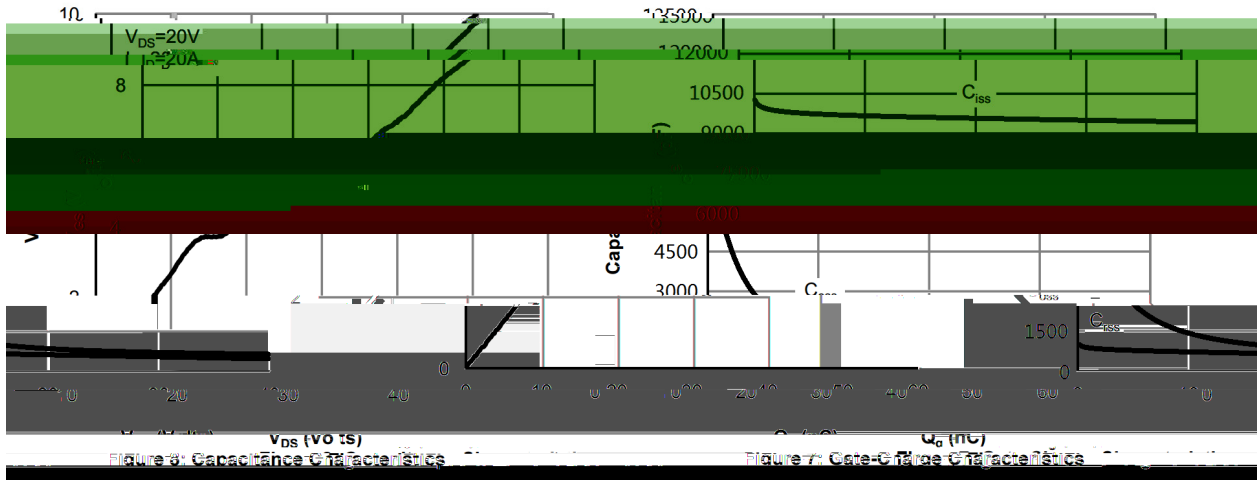


Figure 3: On-Region Characteristics vs. Temperature

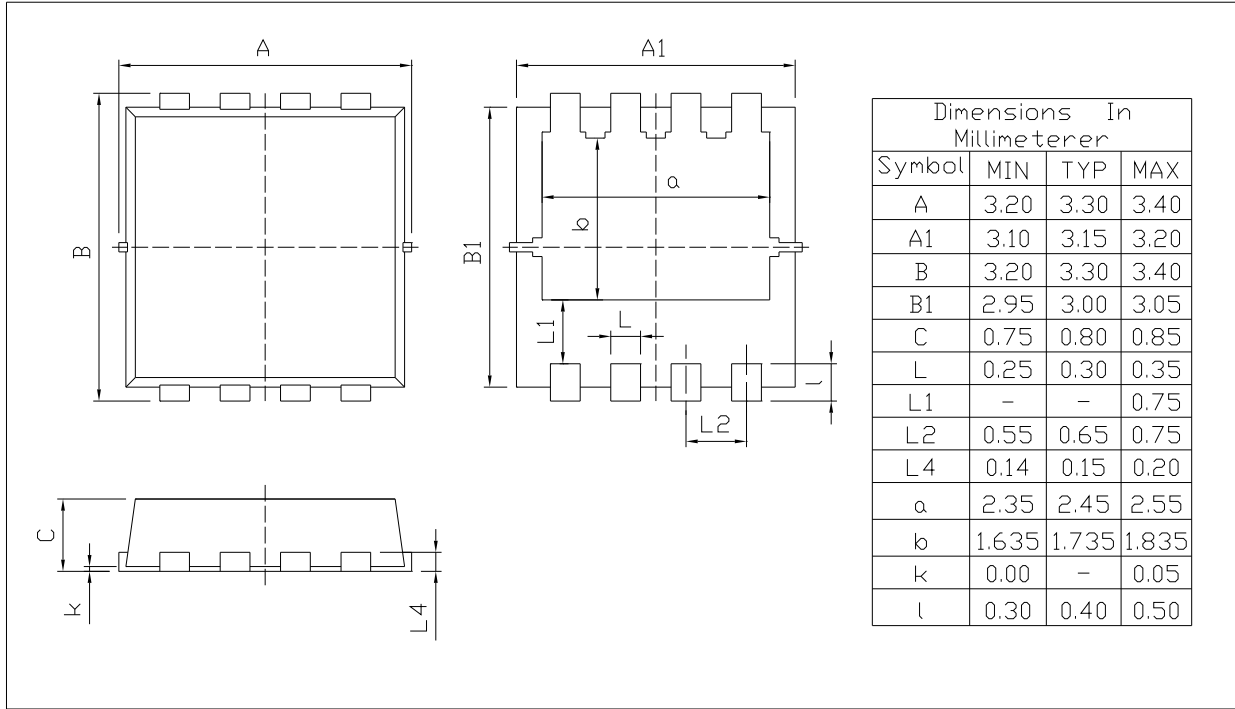
/ Electrical Characteristic Curve



/ Package Dimensions

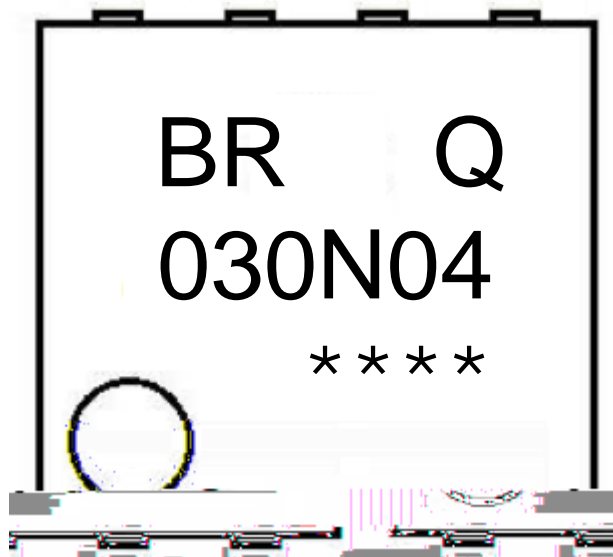
PDFN3X3A-8L

Unit:mm



Rev.00 202011

/ Marking Instructions



BR

Q

030N04

Note:

BR: Company Code

Q: Automobile halogen-free product Code

030N04: Product Type Code

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

