

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

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

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

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

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

AEC-Q101

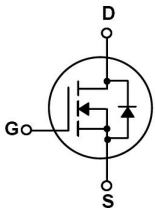
Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

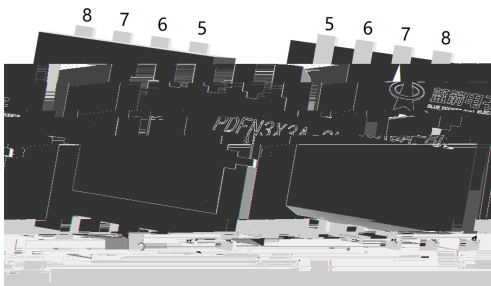
/ Applications

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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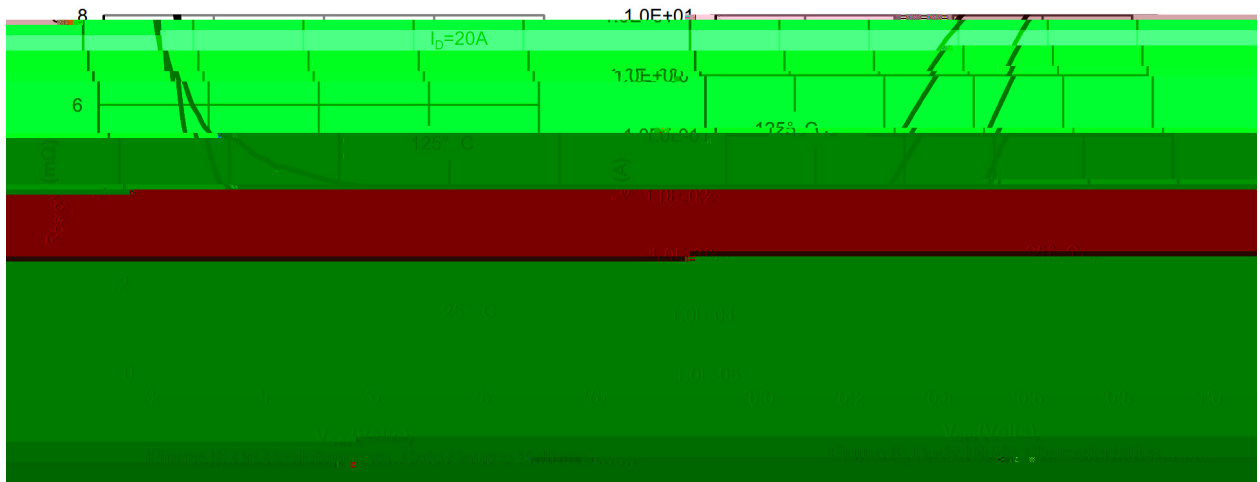
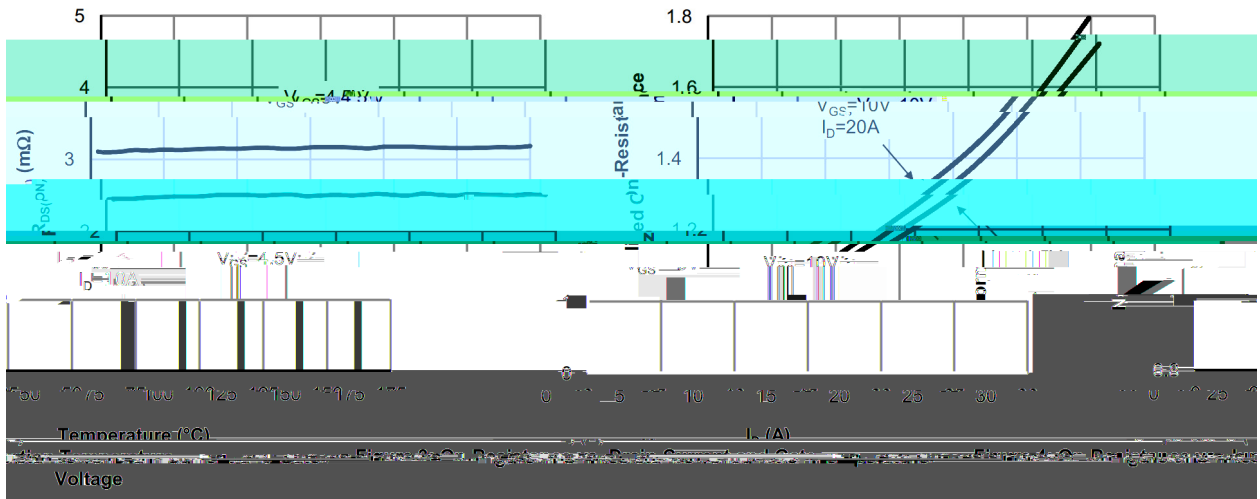
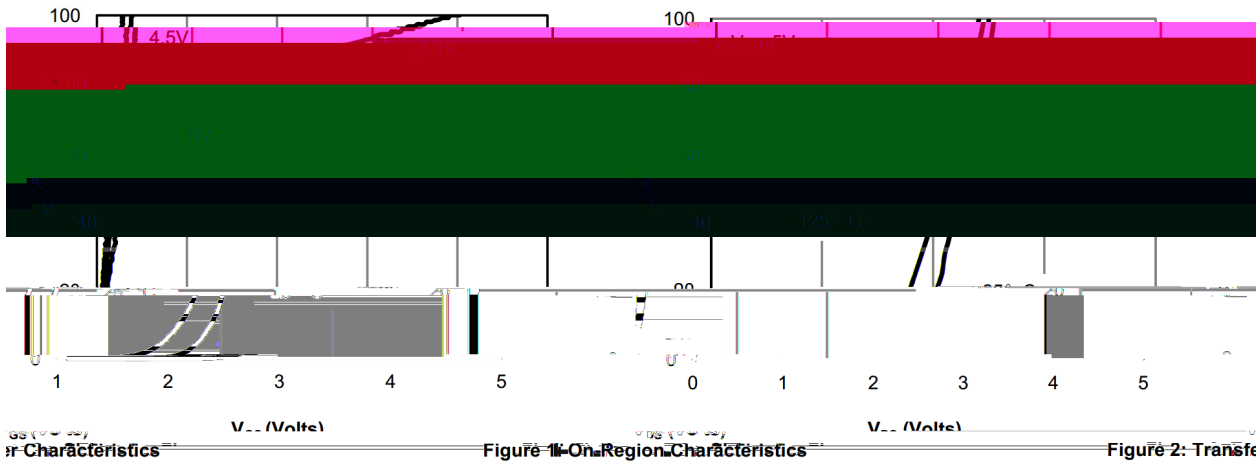
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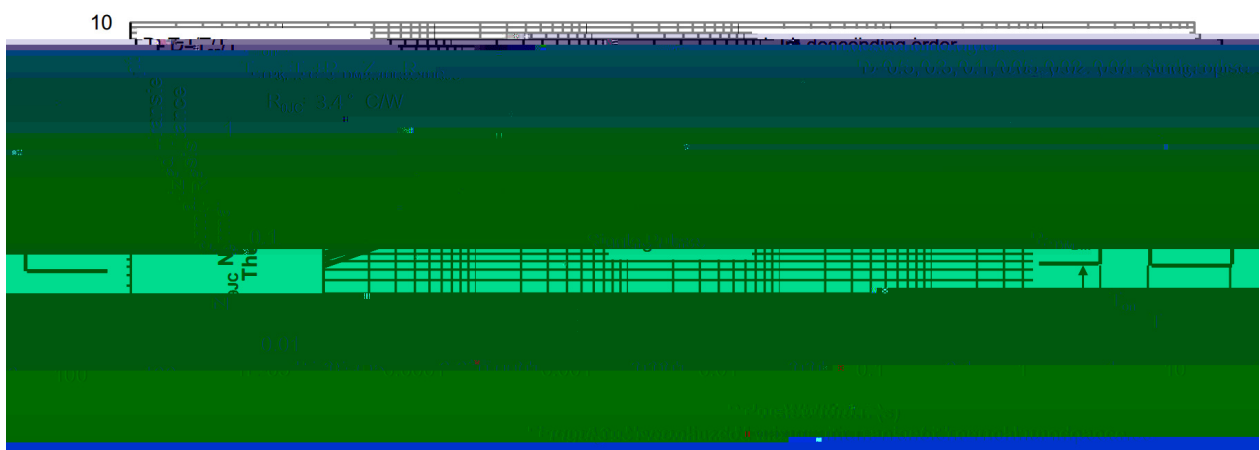
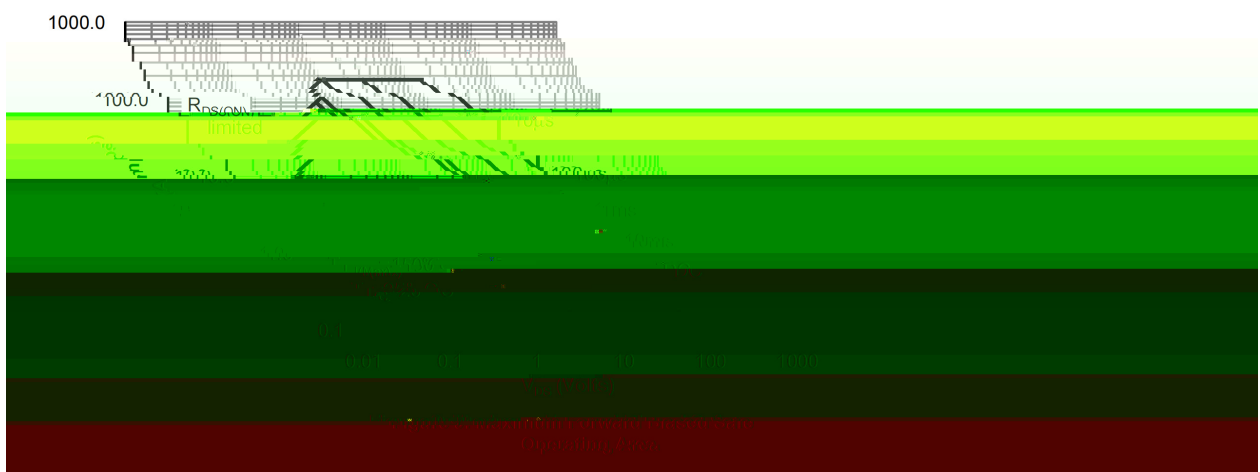
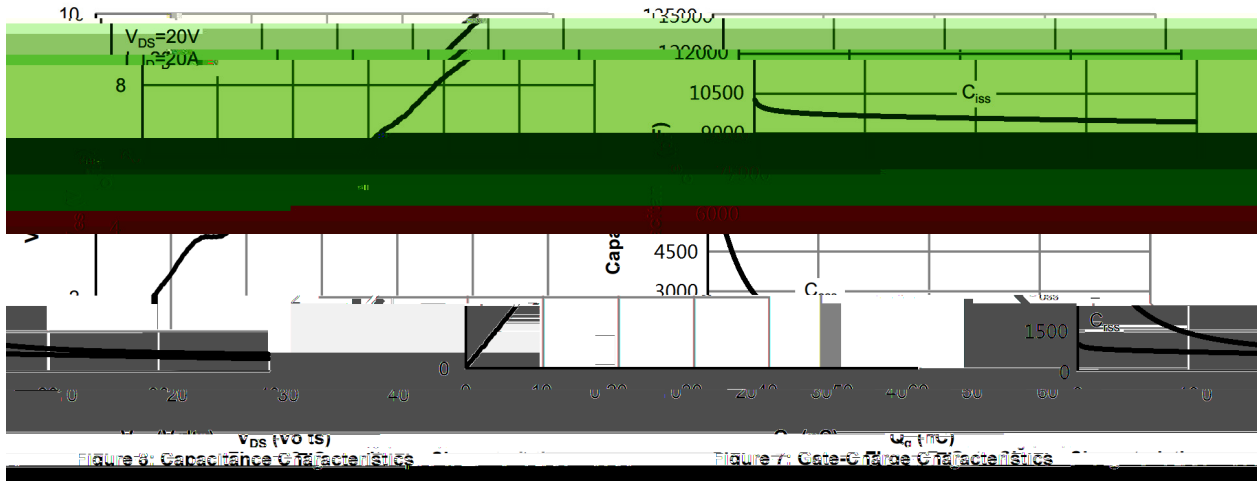
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	Ref	TA	Typ	PM
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/ Electrical Characteristic Curve



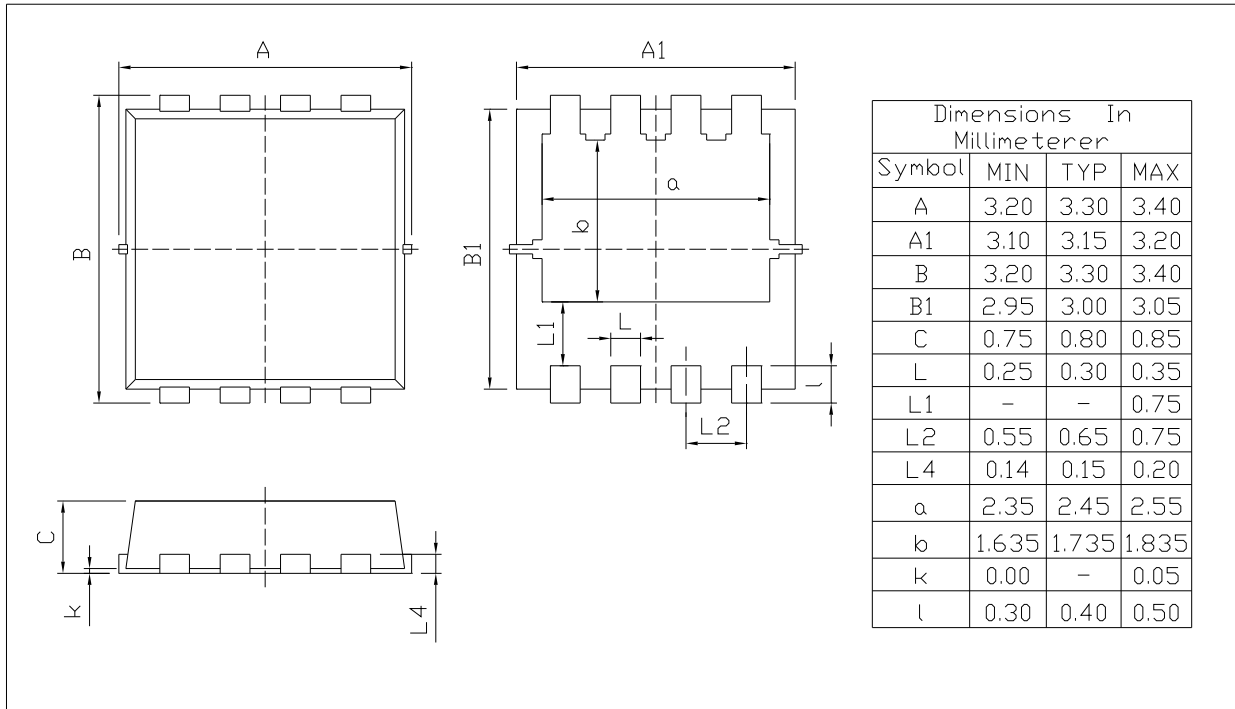
/ Electrical Characteristic Curve



/ Package Dimensions

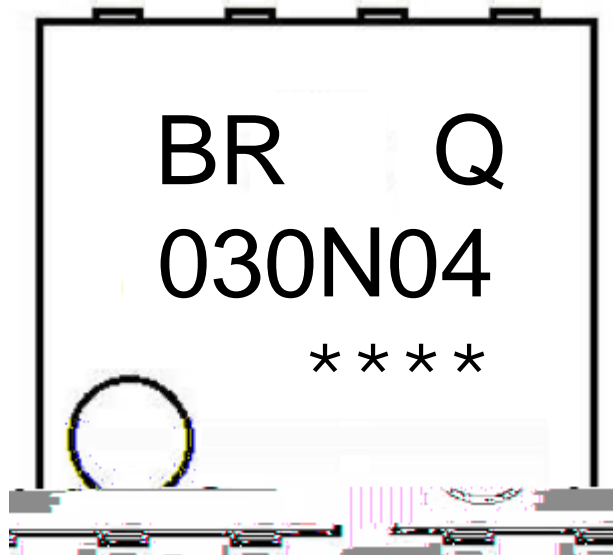
PDFN3X3A-8L

Unit:mm



Rev.00 202011

/ Marking Instructions



BR

Q

030N04

Note:

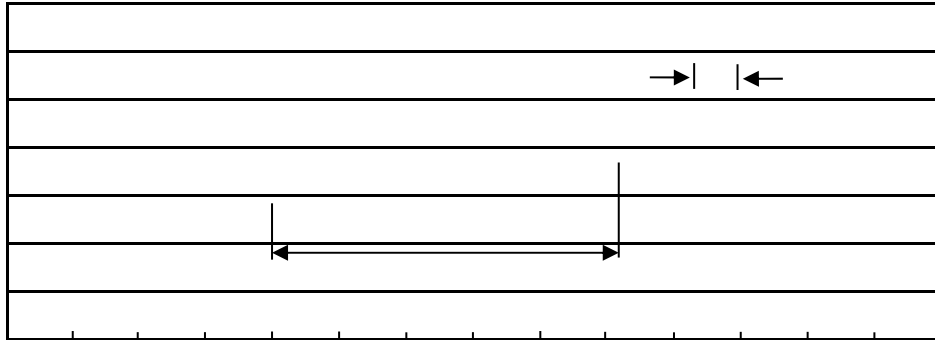
BR: Company Code

Q: Automobile halogen-free product Code

030N04: Product Type Code

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1 150 200 60 120sec; 1.Preheating:150~200 , Time:60~120sec.
- 2 255±5 5±0.5sec; 2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3 2 10 /sec. 3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
PDFN3x3A-8L	5,000	2	10,000	6	60,000	13 x12	360x360x50	380x335x366

/ Notices