

BRCS035N03DPQ

Rev.A Dec.-2023

/ Descriptions

TO-252 N MOS

N-Channel Enhancement Mode Field Effect Transistor in a TO-252 Plastic Package.

/ Features

$V_{DS} (V) = 30V$ $I_D = 122 A$ ($V_{GS} = 20V$)

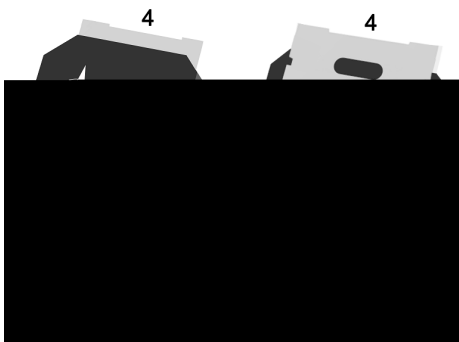
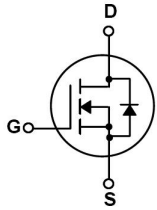
$R_{DS(ON)}@10V$ 3.5mR(Typ.3.4mR)

$R_{DS(ON)}@4.5V$ 6.5mR(Typ.5.0mR)

AEC-Q101
HF Product.

Qualified to AEC-Q101 Standards for High Reliability,

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



PIN1 G PIN 2 4 D PIN 3 S

/ Marking

See Marking Instructions.

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DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	30	V
Drain Current	$I_D(T_C=25^\circ C)$		

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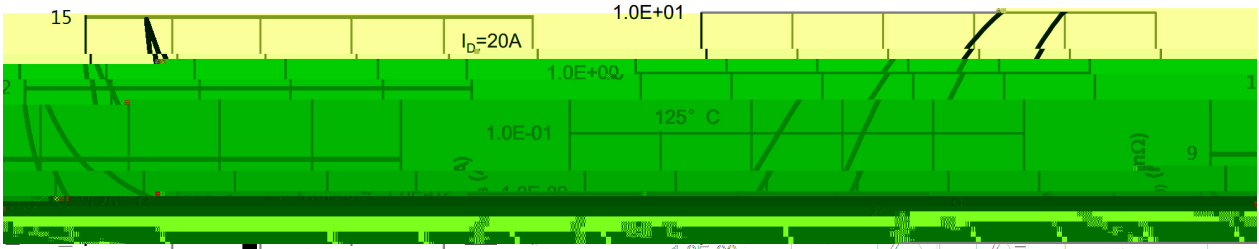
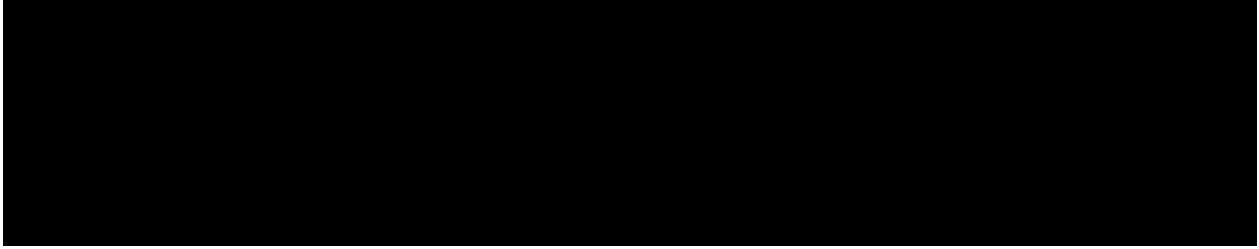
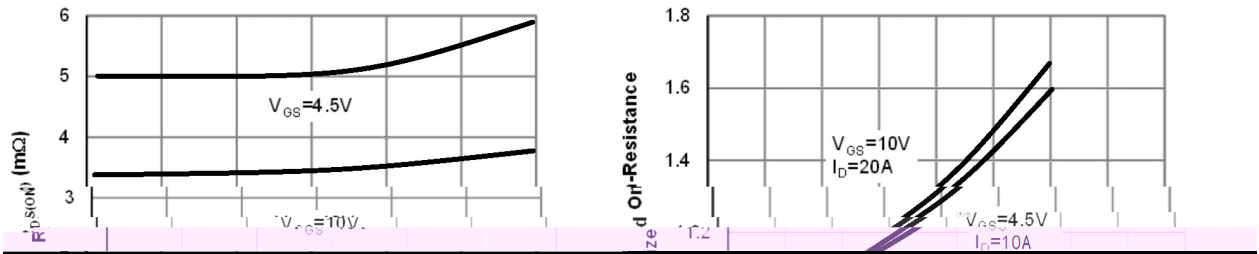
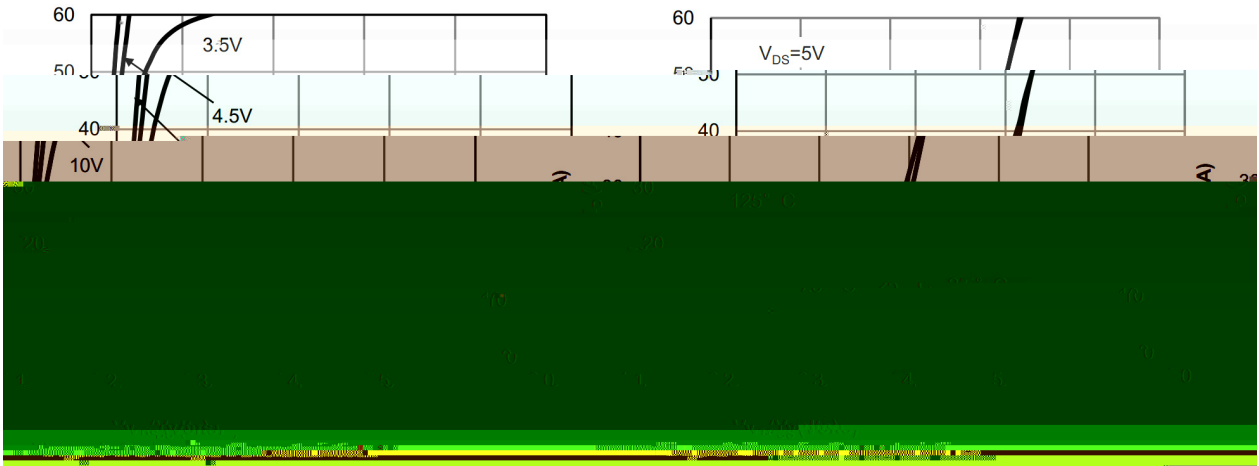
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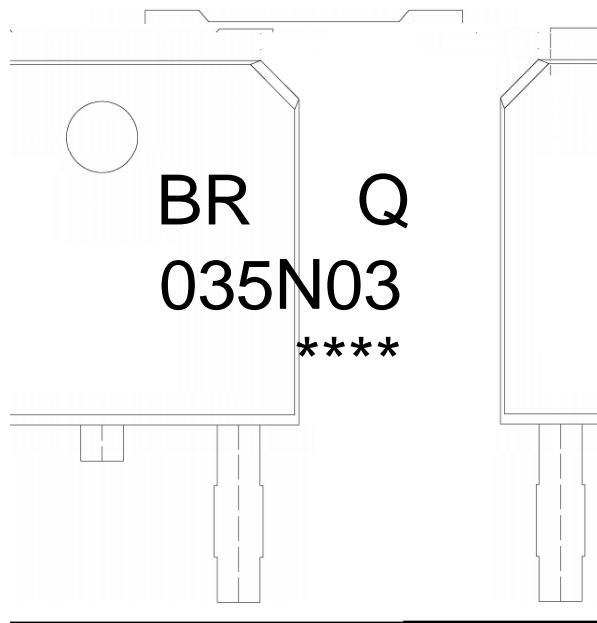
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=10V$ $V_{DS}=15V$ $I_D=20A$		32		nC
Total Gate Charge	$Q_{g(4.5V)}$			15		
Gate Source Charge	Q_{gs}			5.2		
Gate Drain Charge	Q_{gd}			6.5		
Turn-On Delay Time	$t_{d(on)}$			8.5		
Turn-On Rise Time	t	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=0.75$ $R_{GEN}=3$				ns

/ Electrical Characteristic Curve



/ Marking Instructions



BR

Q

035N03

Note:

BR: Company Code

Q: Automobile halogen-free product Code

035N03: Product Type Code

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

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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.