

BRCS035N03DPQ

Rev.A Dec.-2023

📄 / Descriptions

TO-252 N MOS

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

🔑 / Features

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

$R_{DS(ON)}@10V \leq 3.5m\Omega$ (Typ. 3.4m Ω)

$R_{DS(ON)}@4.5V \leq 6.5m\Omega$ (Typ. 5.0m Ω)

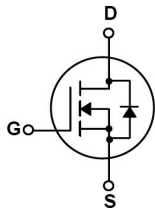
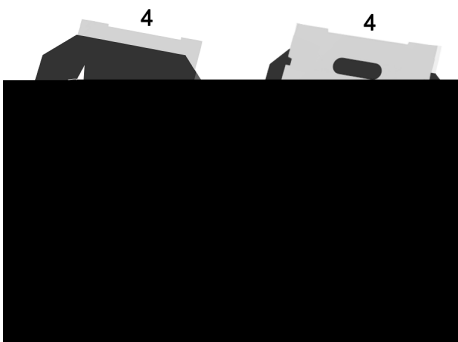
AEC-Q101

Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

📷

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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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

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

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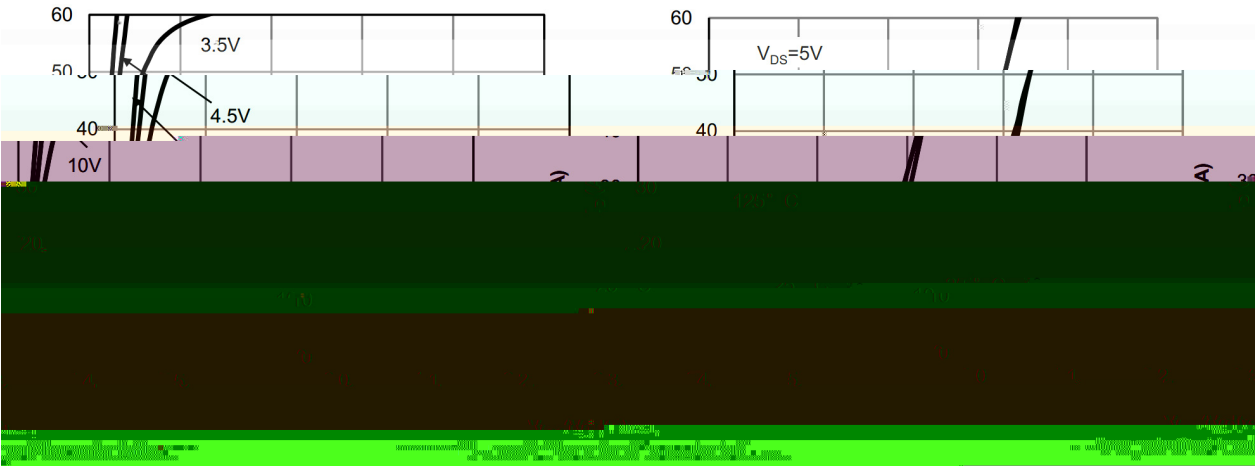
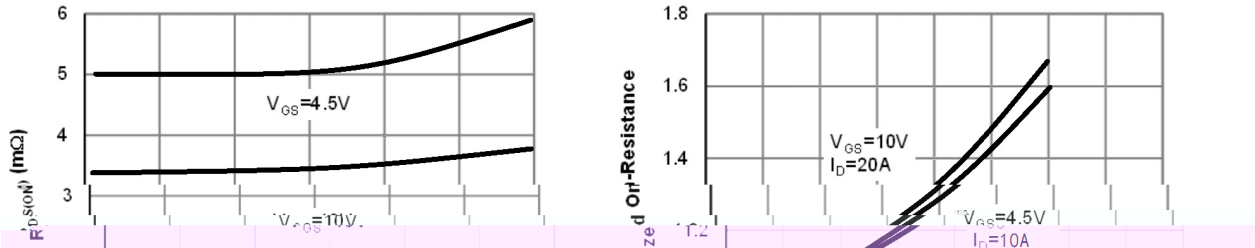
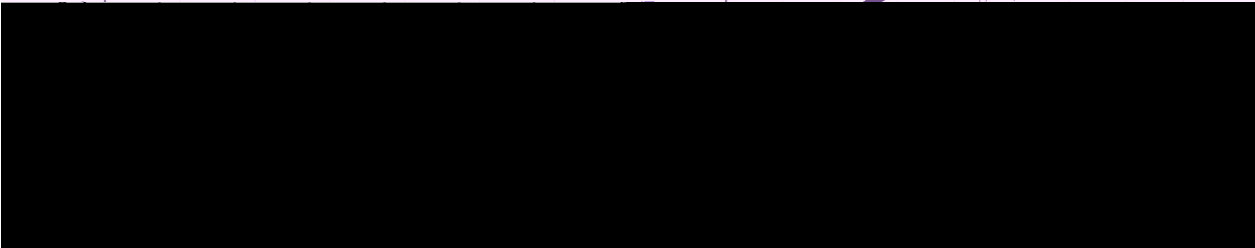
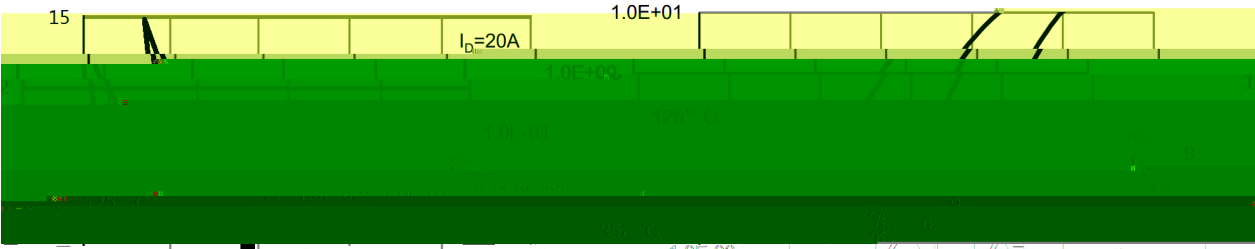
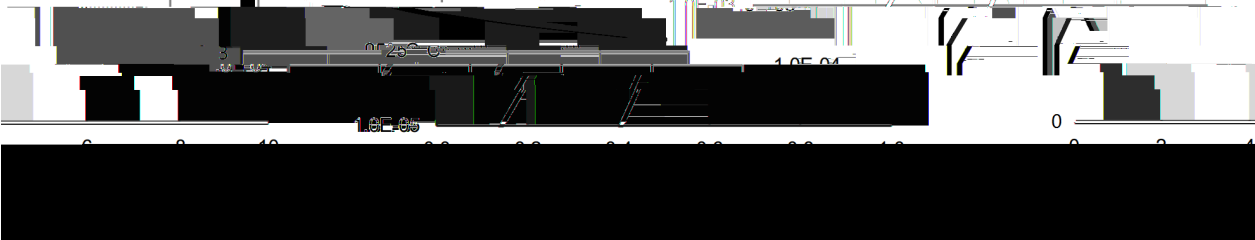


蓝箭电子
BLUE ROCKET ELECTRONICS

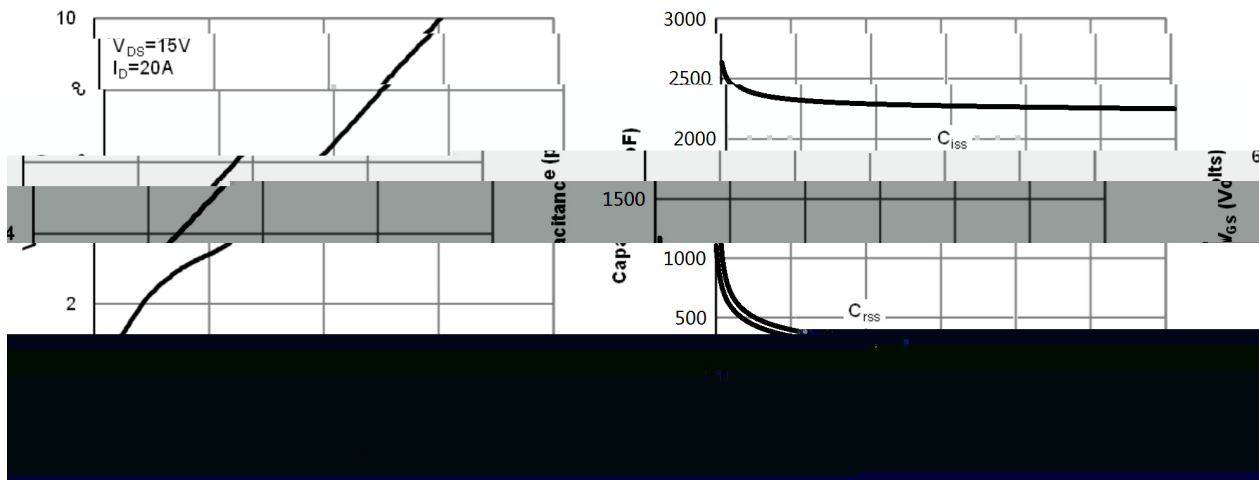
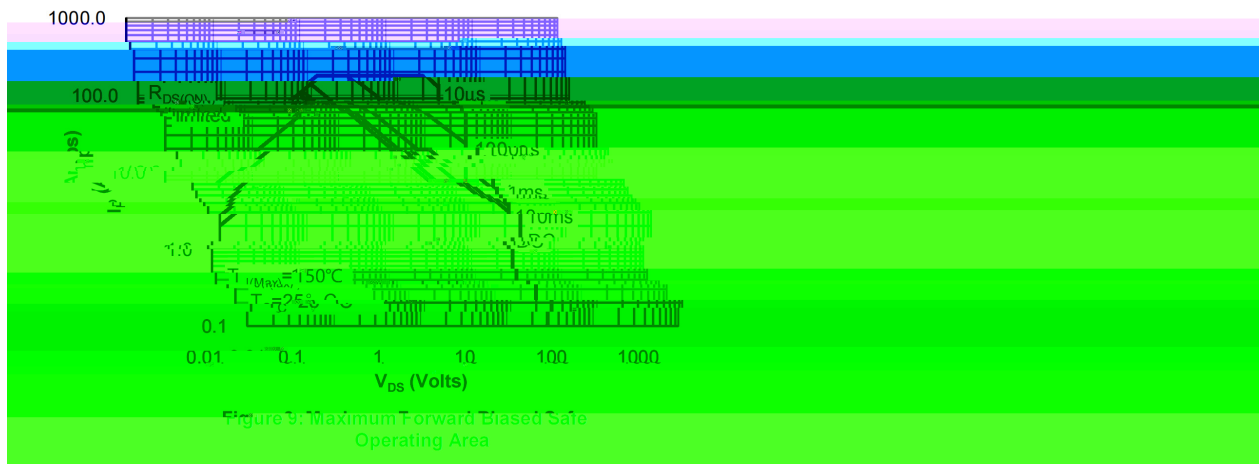
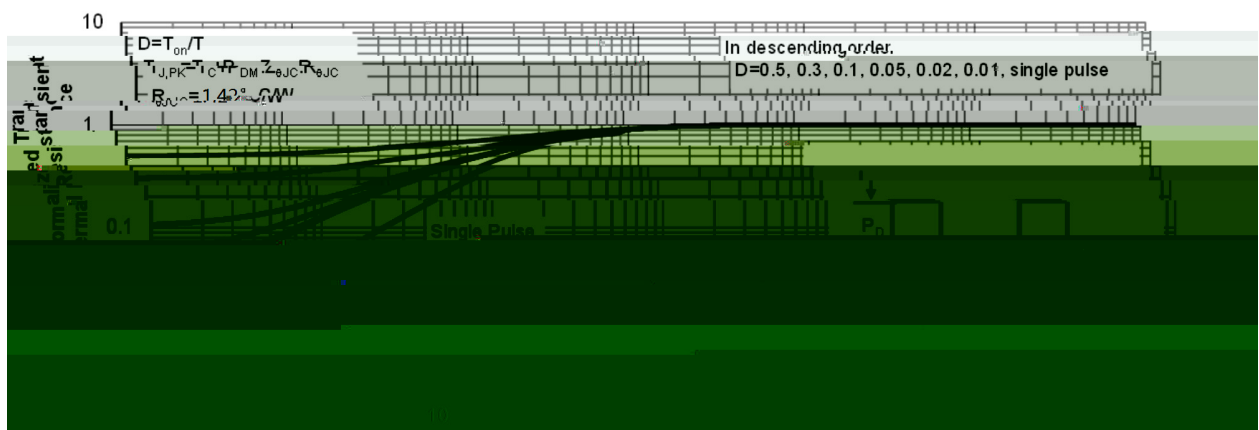
DATA SHEET

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	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=0.75\Omega$ $R_{GEN}=3\Omega$				ns

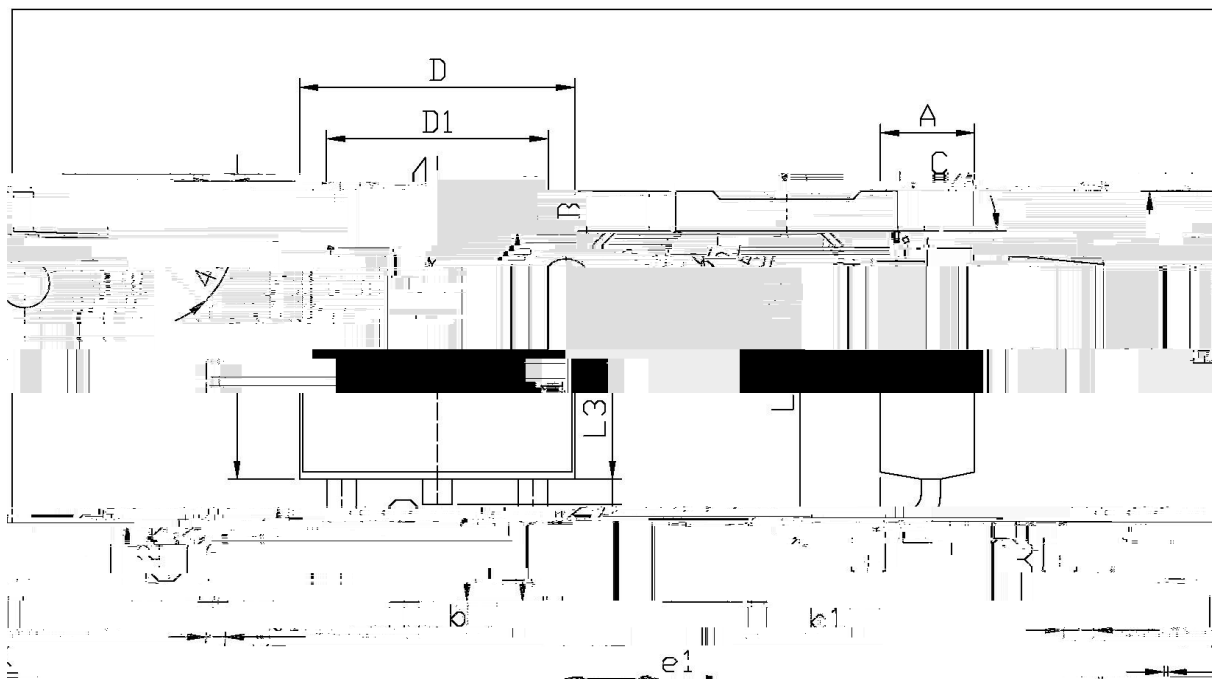
Electrical Characteristic Curve



2 Electrical Characteristic Curve



Package Dimensions

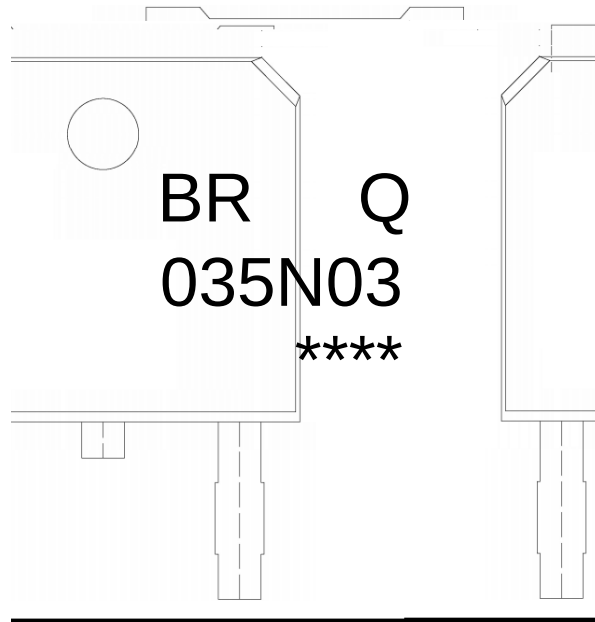


单位: mm

[illegible]

T0-252

1. 1.1 / 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

温度特性 / Whp shudwxuh Suriloh i ru LU Uhior z Vroghulqj+Se0luhh,

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.