

Y٢ / Descriptions

TO-252 N MOS

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

• È / 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)

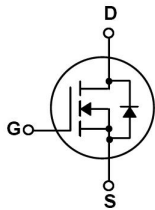
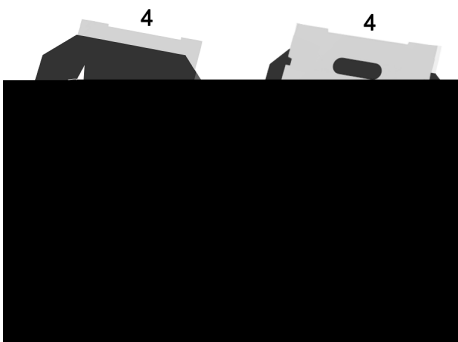
AEC-Q101

Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

٧ ٤

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



PIN1 G

PIN 2 4 D

PIN 3 S

٤. ٨ ٤ / Marking

See Marking Instructions.

BRCS035N03DPQ

Rev.A Dec.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

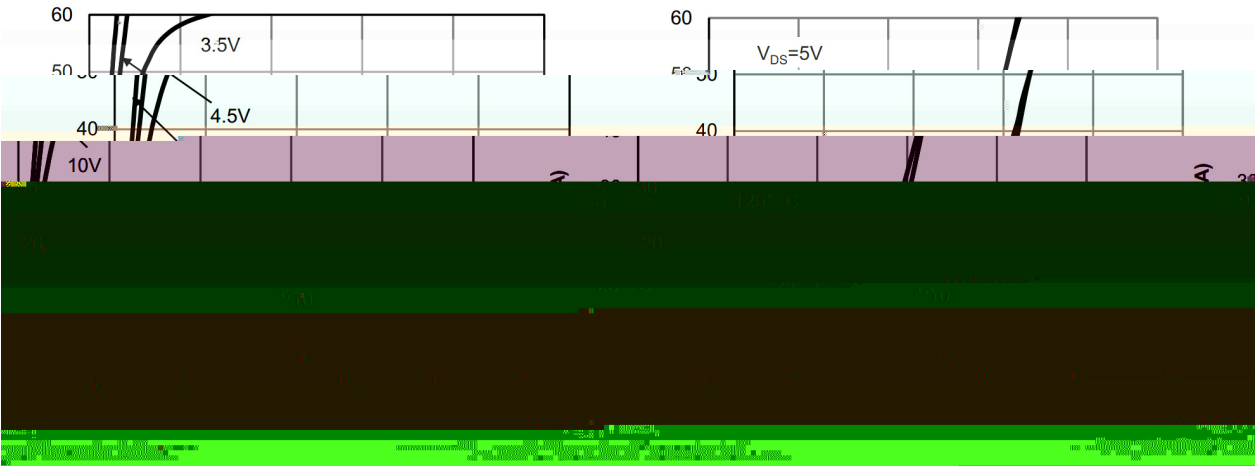
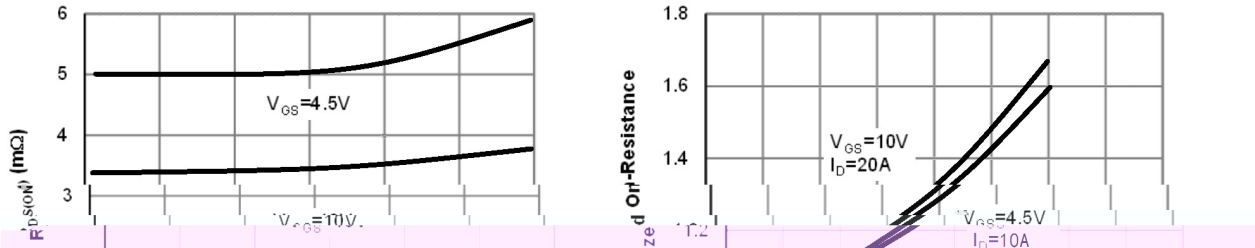
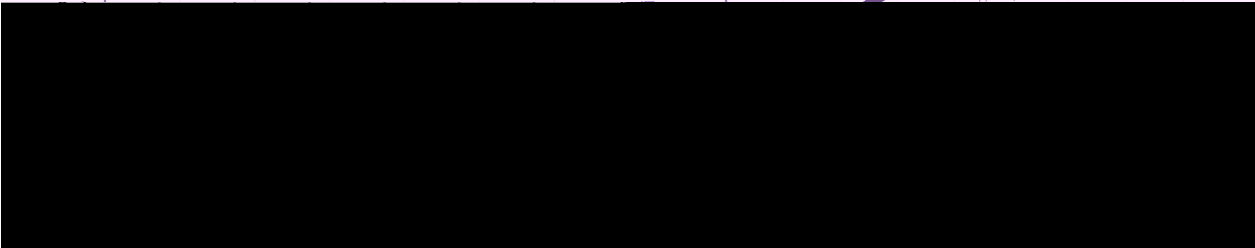
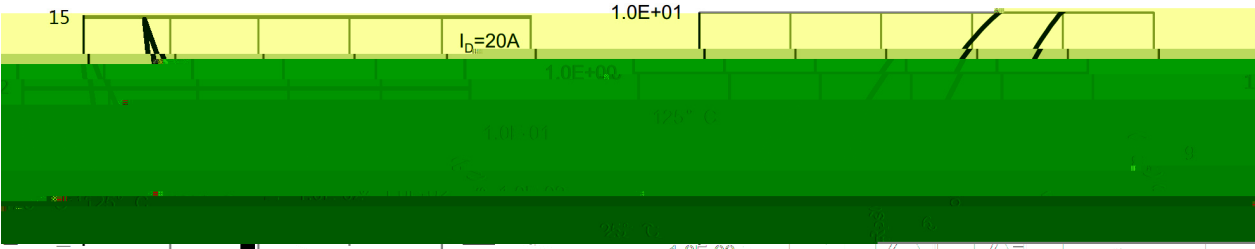
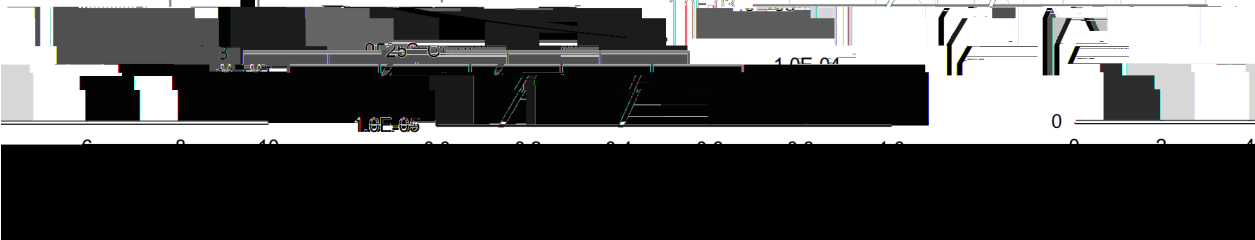
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Drain Current	$I_D(T_c=25^\circ\text{C})$		

BRCS035N03DPQ

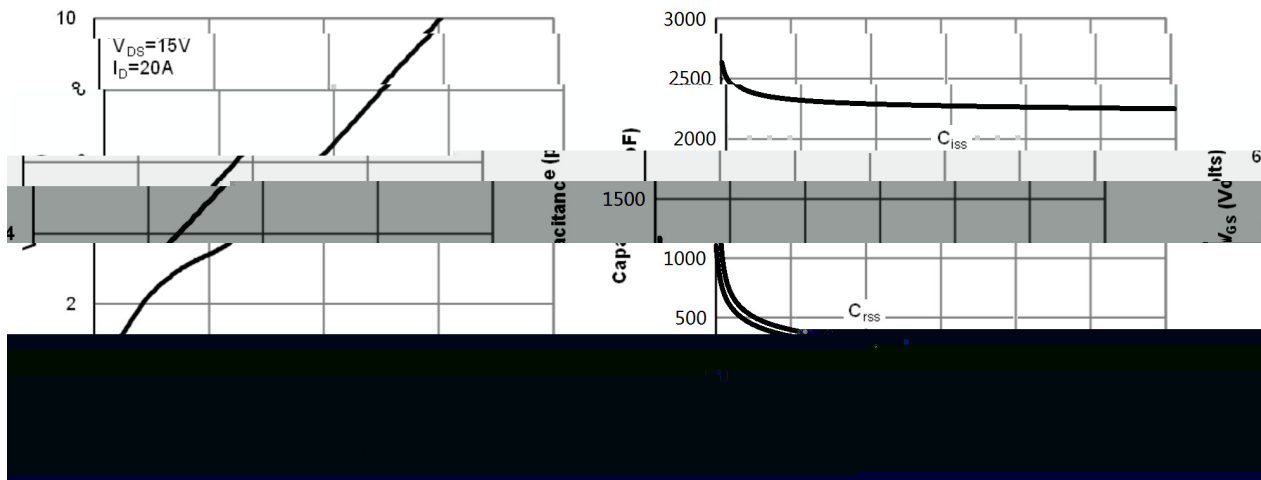
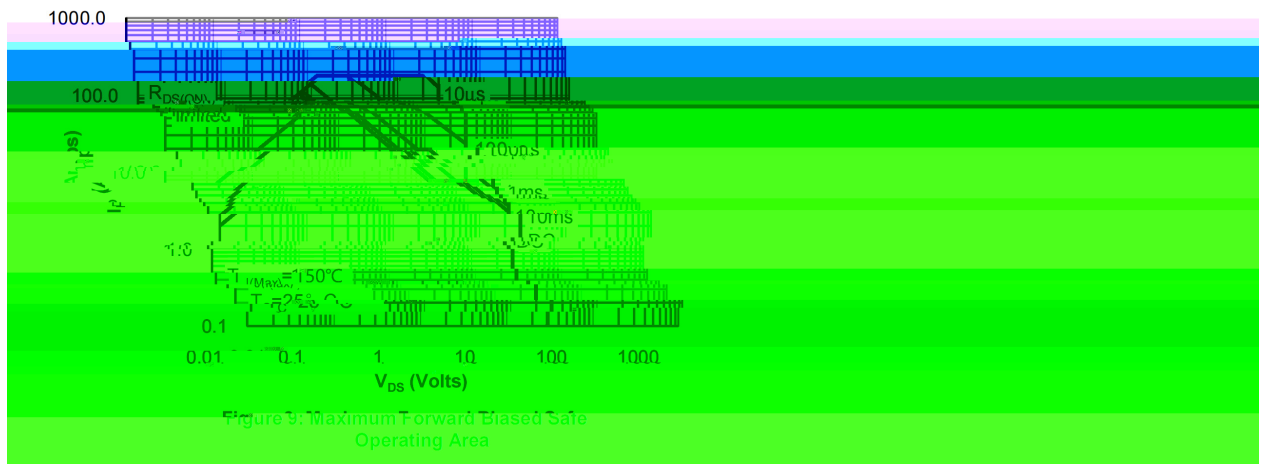
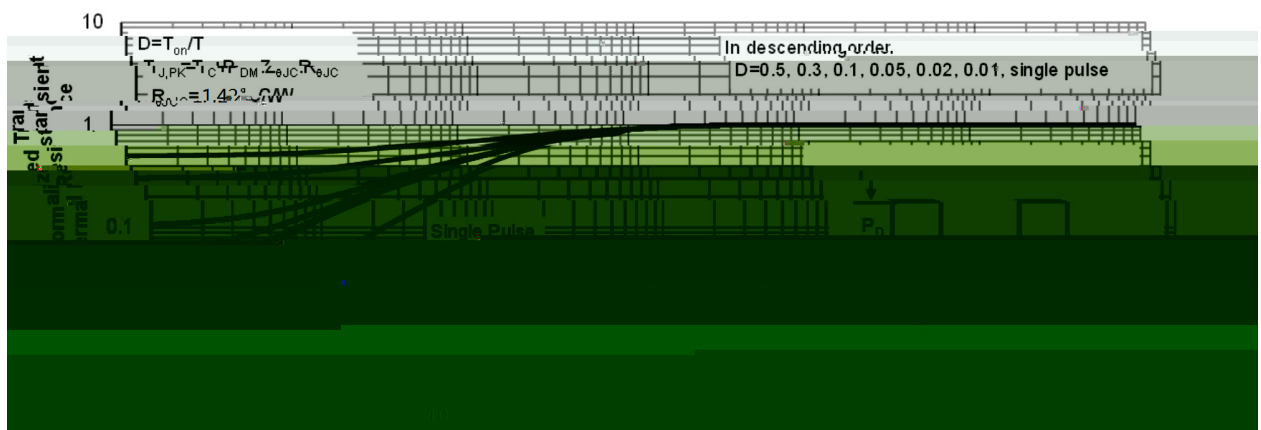
Rev.A Dec.-2023

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

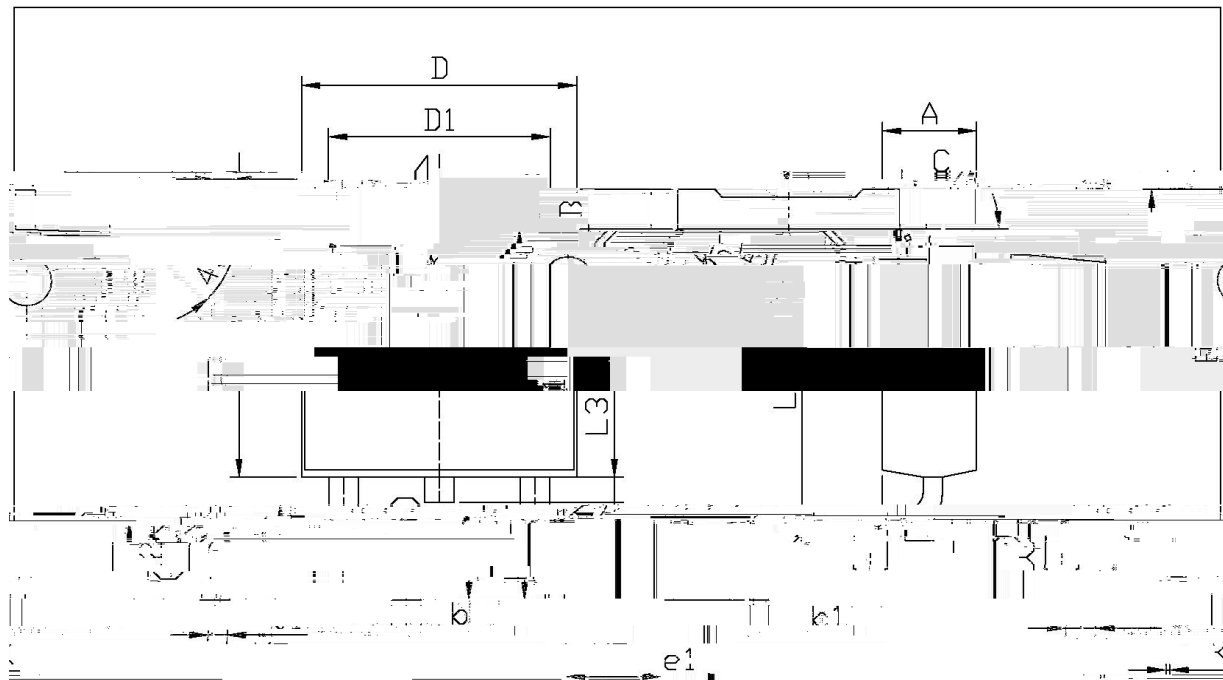
Electrical Characteristic Curve



2 Electrical Characteristic Curve



⌘ É Ò Ì f / Package Dimensions

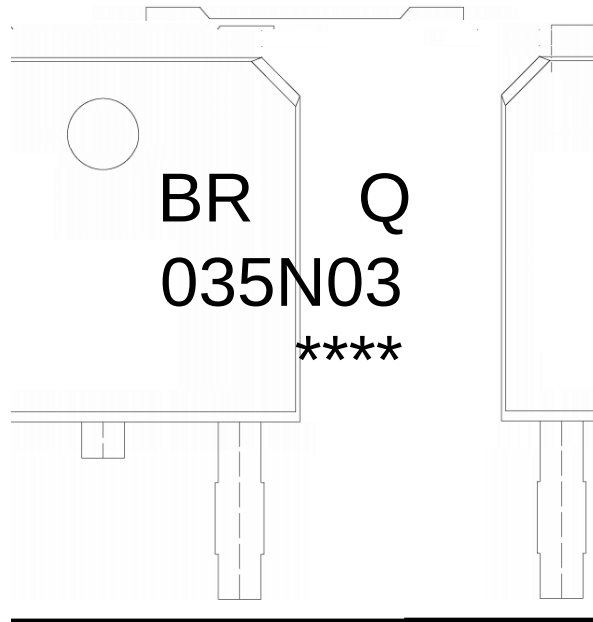


Dimensions, Millimeters		Dimensions, In Millimeters				
Min	Max	Min	Max			
2.24	2.34	B	0.95	1.25	e1	2
0.72	0.72	b	0.20	0.00	e2	0.4
0.85	1.0	h1	0.45	0.55	e1	0.4
0.015	0.015	0.45	0.55	0.55	0.60	0.7
0.10	0.10	D1	5.10	5.50	K	0.00

TO-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:

- 115020060120sec;

1.Preheating:150~200, Time:60~120sec.
- 2255±55±0.5sec;

2.Peak Temp.:255±5, Duration:5±0.5sec.
- 3210/sec.

3. Cooling Speed: 2~10 /sec.