

BRCS20N06DPQ

Rev.A Dec.-2023

/ Descriptions

TO-252 N MOS

N-CHANNEL MOSFET in a TO-252 Plastic Package.

/ Features

$V_{DS}=60V$; $I_D=20A$

$R_{DS(on)}@10V$ 37m (Type.25m)

$R_{DS(on)}@4.5V$ 42m (Type.30m)

AEC-Q101

Qualified to AEC-Q101 Standards for High Reliability,

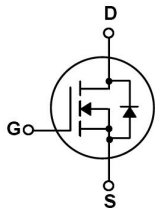
HF Product.

/ Applications

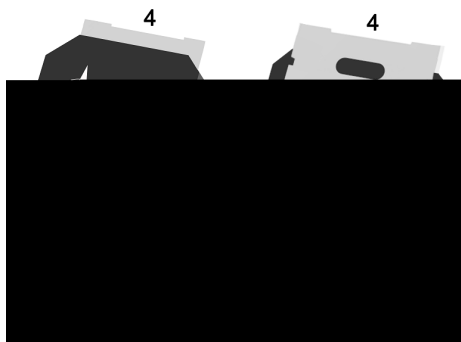
LED

Boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.

Parameter	Symbol	Rating
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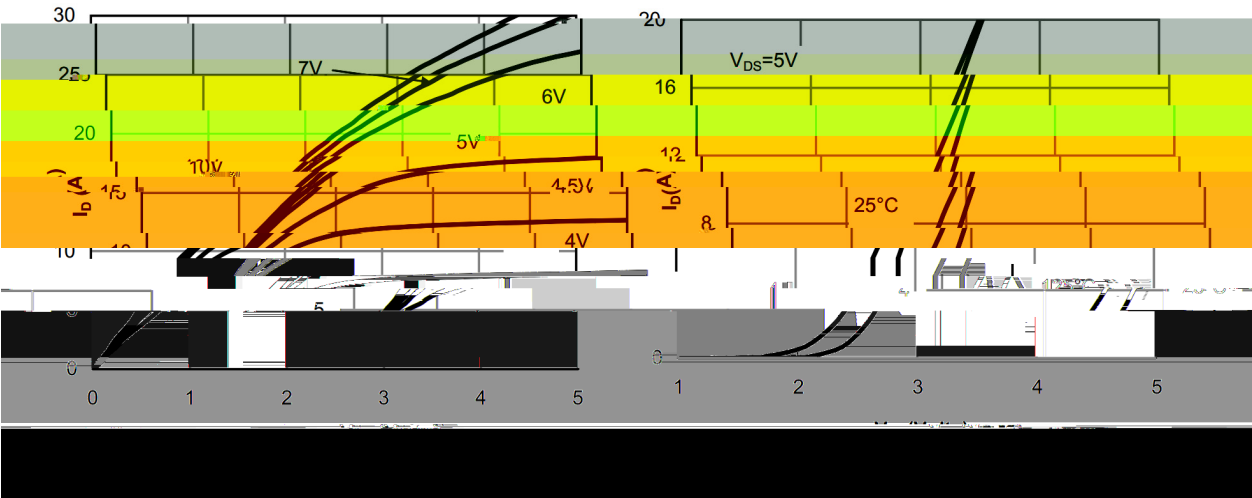
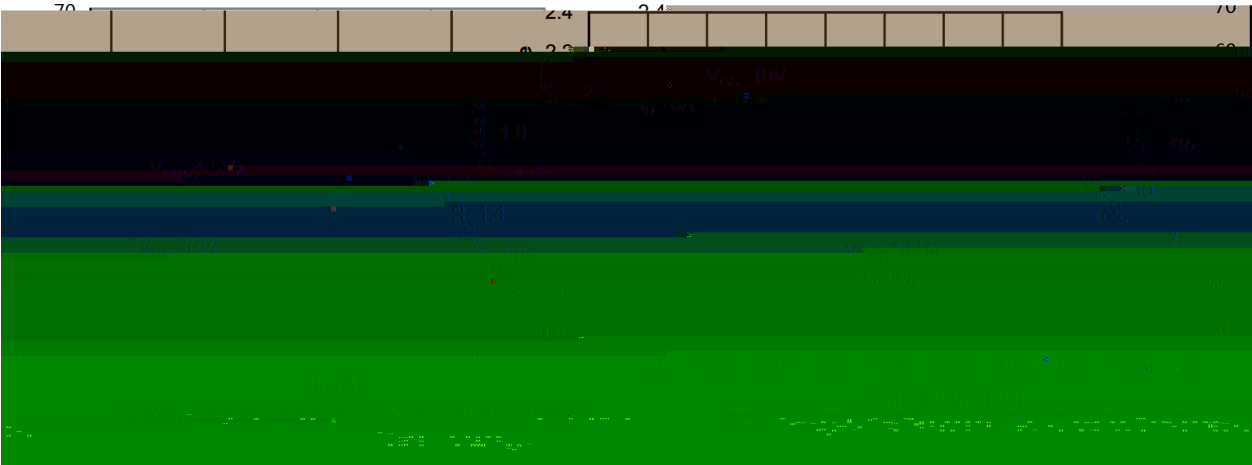
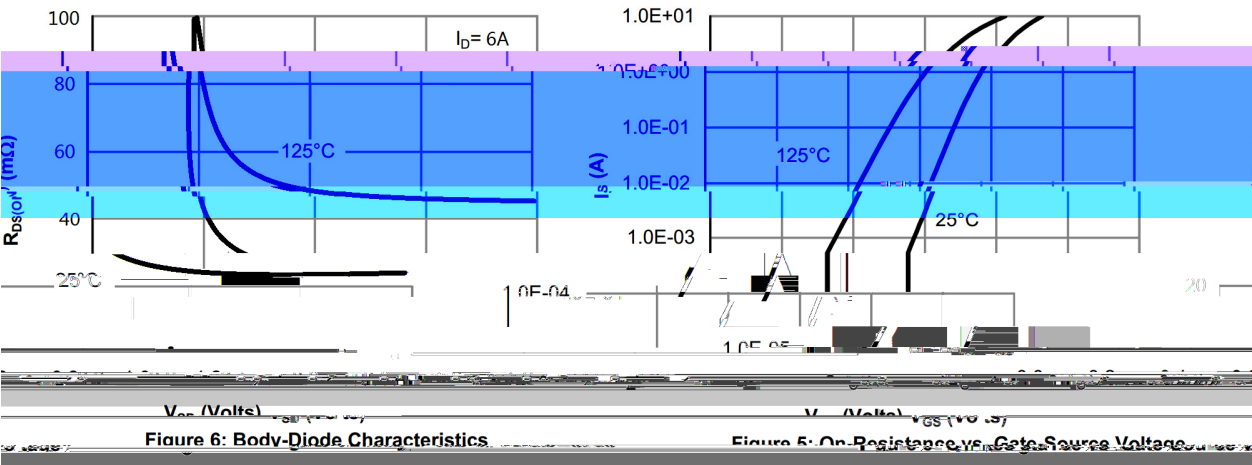
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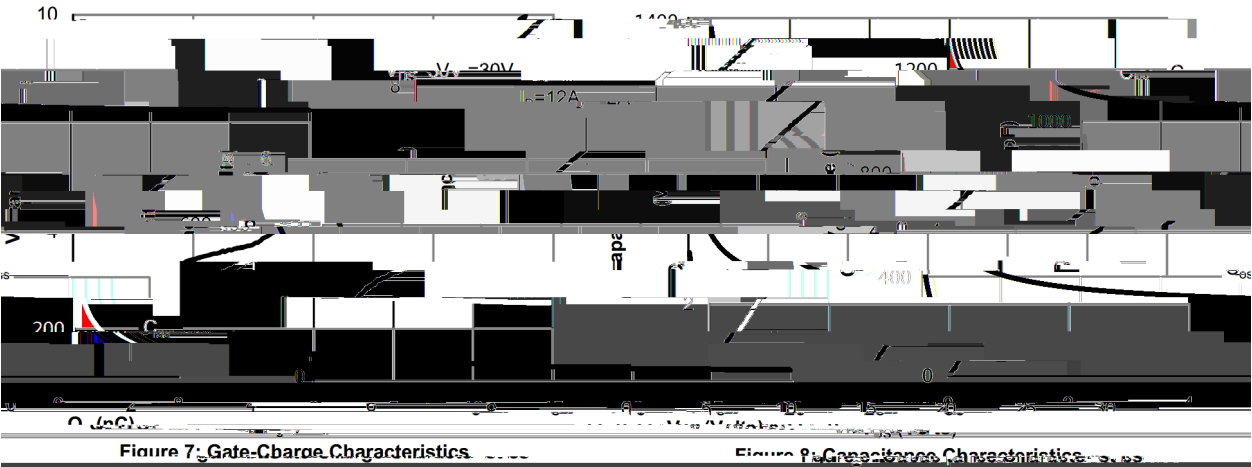
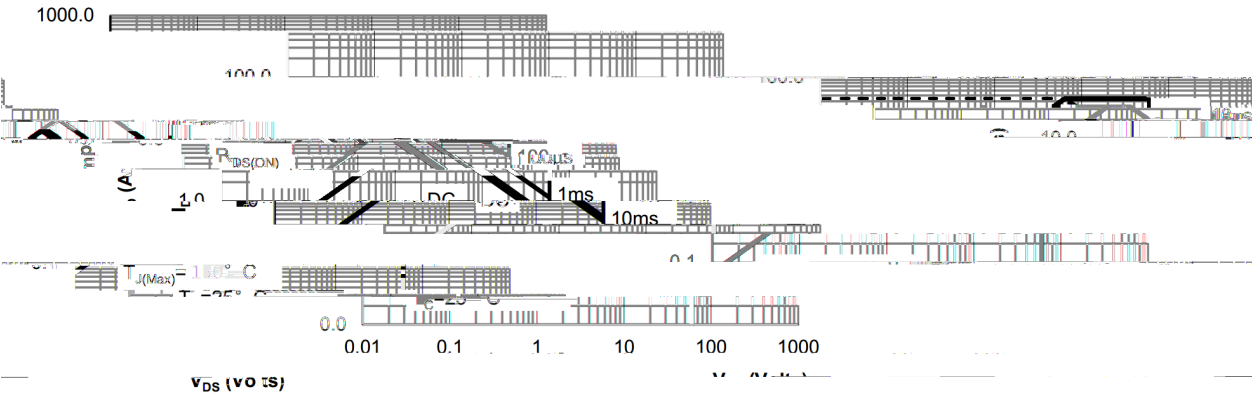
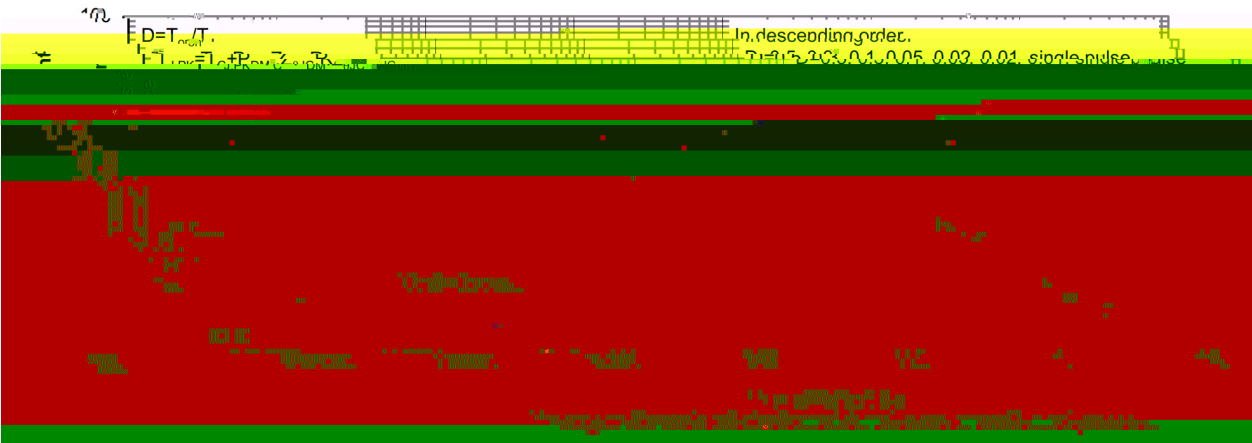
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $R_L=2.5$ $V_{DS}=30V$ $R_{GEN}=3.0$		4.2		ns

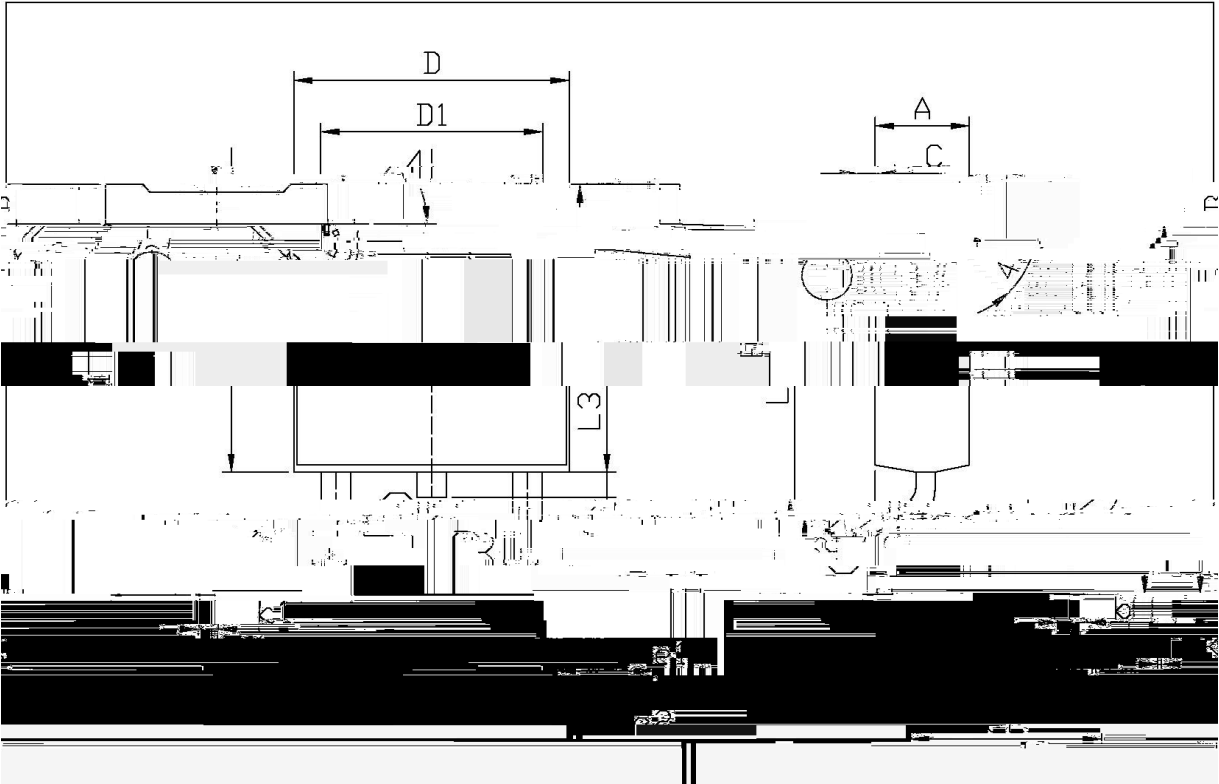
Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions

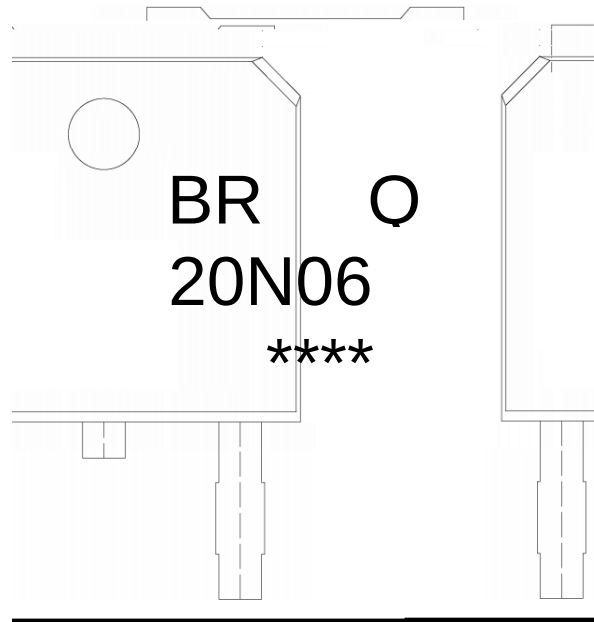


单位：mm

Dimensions, Millimeters		Symbol		Dimensions, In Millimeters		Symbol	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
0.68	0.70	0.10	0.12	0.25	0.27	0.05	0.07
B	0.95	1.25	e1	2.24	2.3		
0.70	0.72	0.00	0.02	0.62	0.64	4.7	
h1	0.45	0.55	h	9.85	10.35		
0.45	0.47	0.55	0.57	0.00	0.02		
6.45	6.75	1.3	1.5	0.00	0.02		
DL	5.10	5.50	K	0.00	0.10		

T0-252

/ Marking Instructions



BR

Q

20N06

Note:

BR: Company Code

Q: Automobile halogen-free product Code

20N06: Product Type Code

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

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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET