

BRCS050N06SZCQ

Rev.A Feb.-2025

/ Descriptions

PDFN5² 6 N
N-Channel MOSFET in a PDFN5x6 Plastic Package.

/ Features

$V_{DS}(V)=60\text{ V}$ $I_D=81\text{ A}$

$R_{DS(ON)}@10\text{ V}$ 5.2m (Typ. 4.9m)

$R_{DS(ON)}@4.5\text{ V}$ 7.5m (Typ.6.8mR)

AEC-Q101

Qualified to AEC-Q101 Standards for High Reliability,

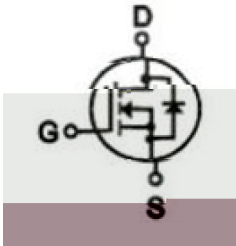
HF Product.

/ Applications

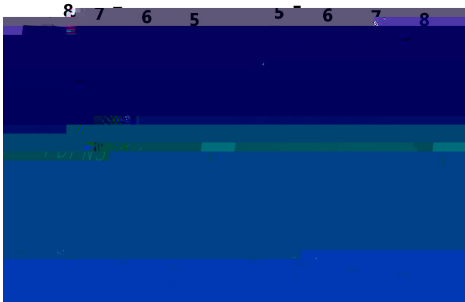
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Secondary Side Synchronous Rectification,DC-DC Converter,Motor Control,Load Switching, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

/ Marking

See Marking Instructions.

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DATA SHEET

/ Electrical Characteristic Curve

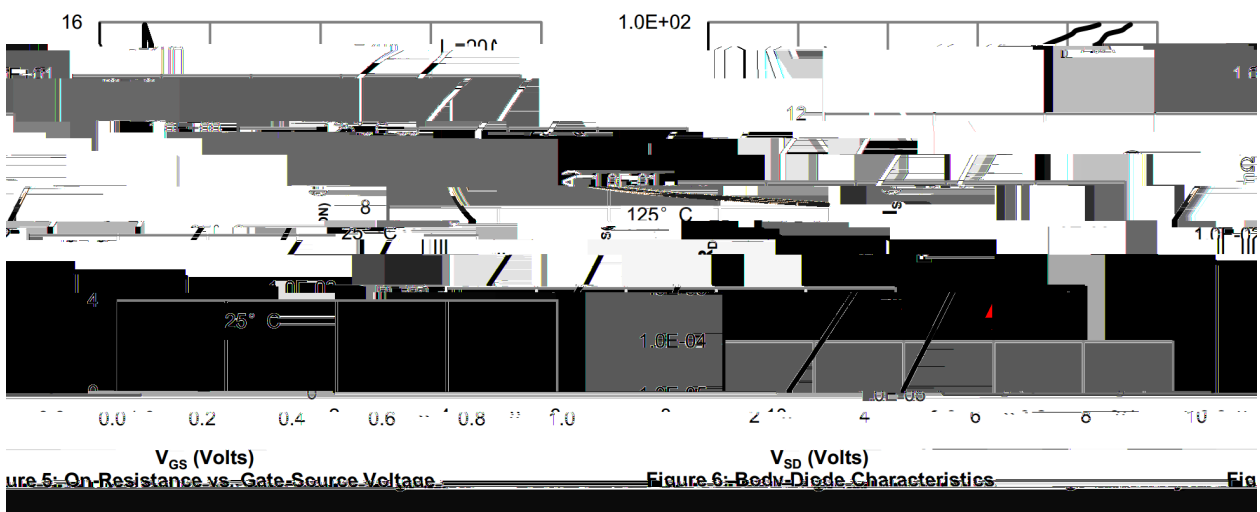
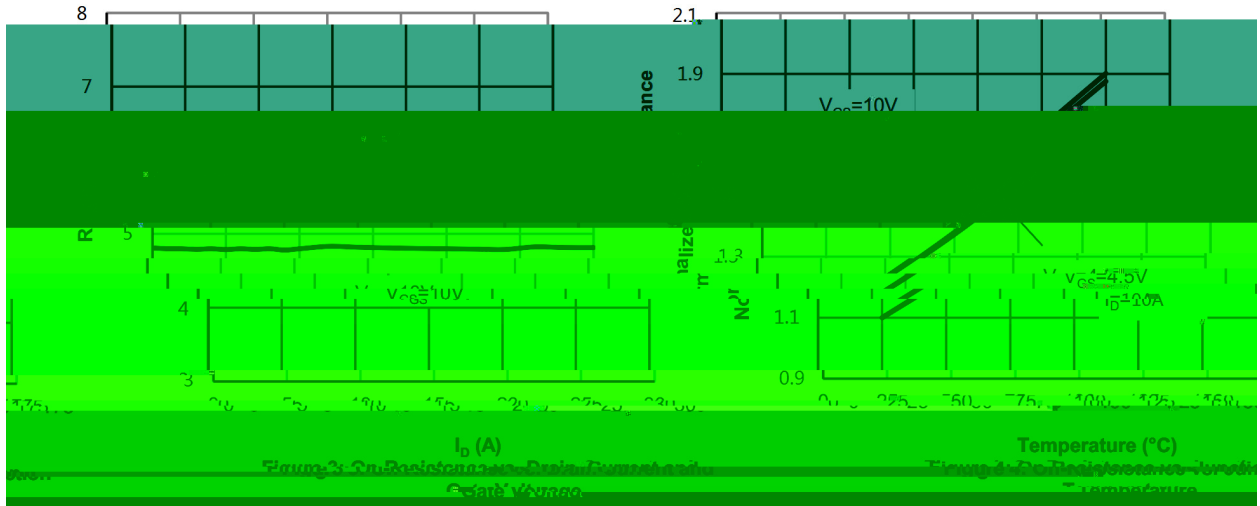
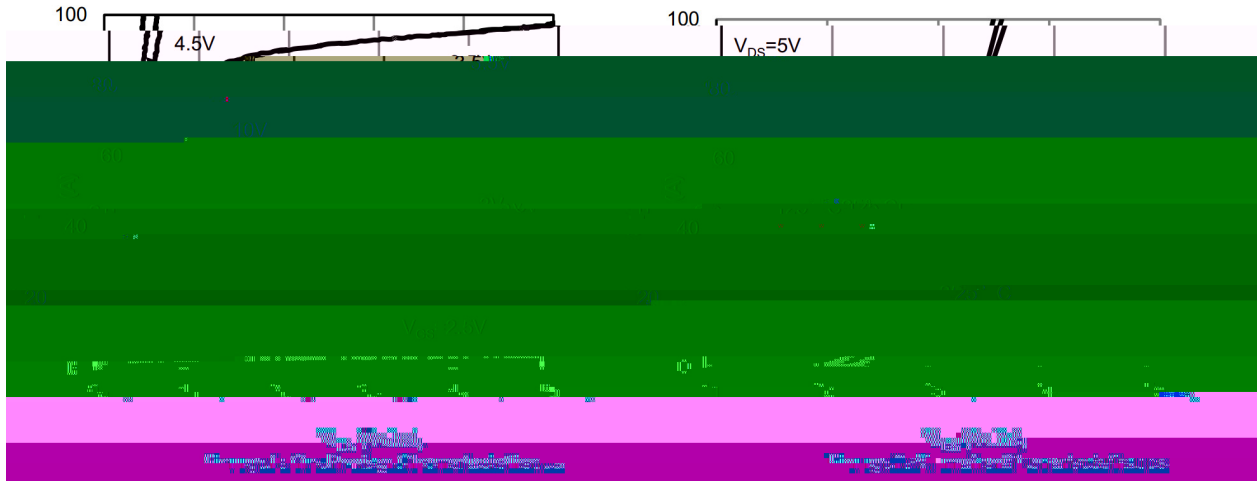


Figure 5: On-Resistance vs. Gate-Source Voltage

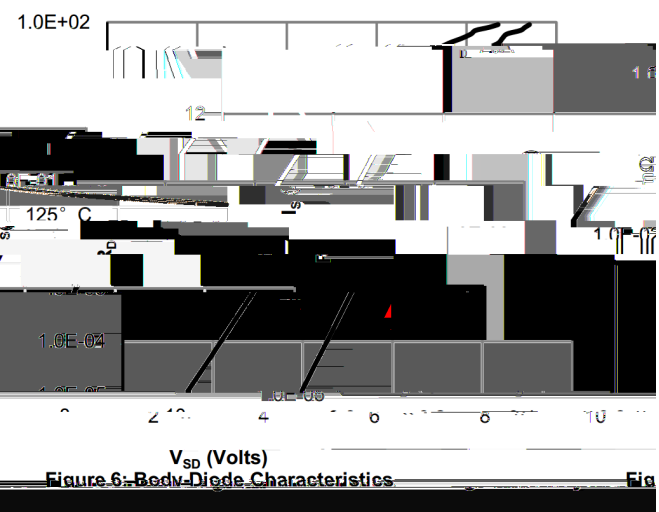
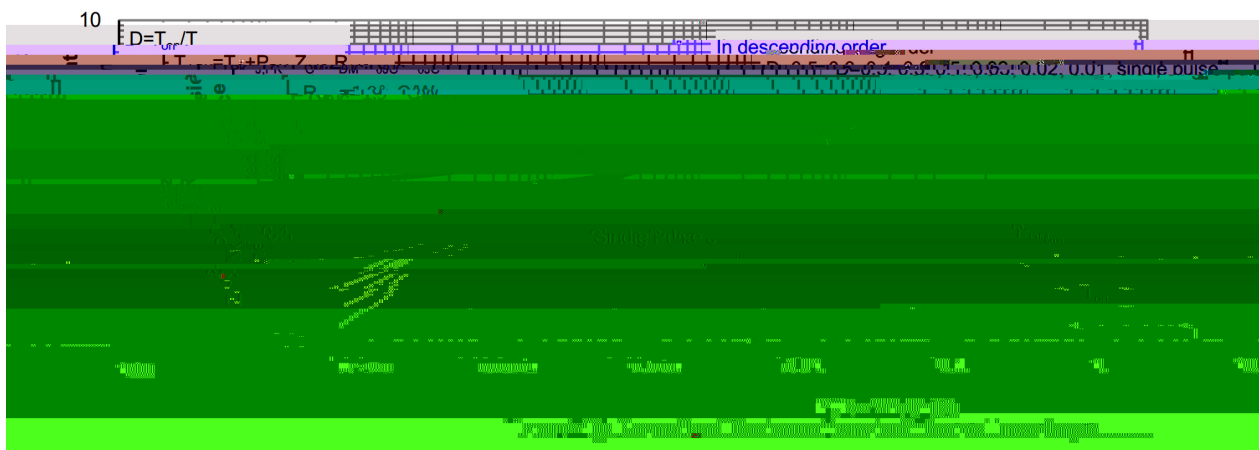
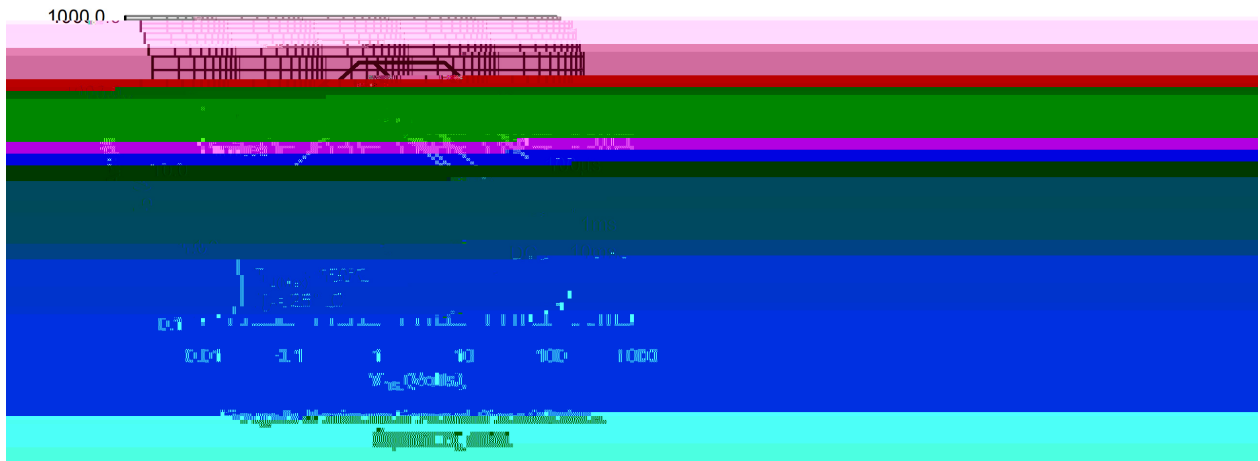
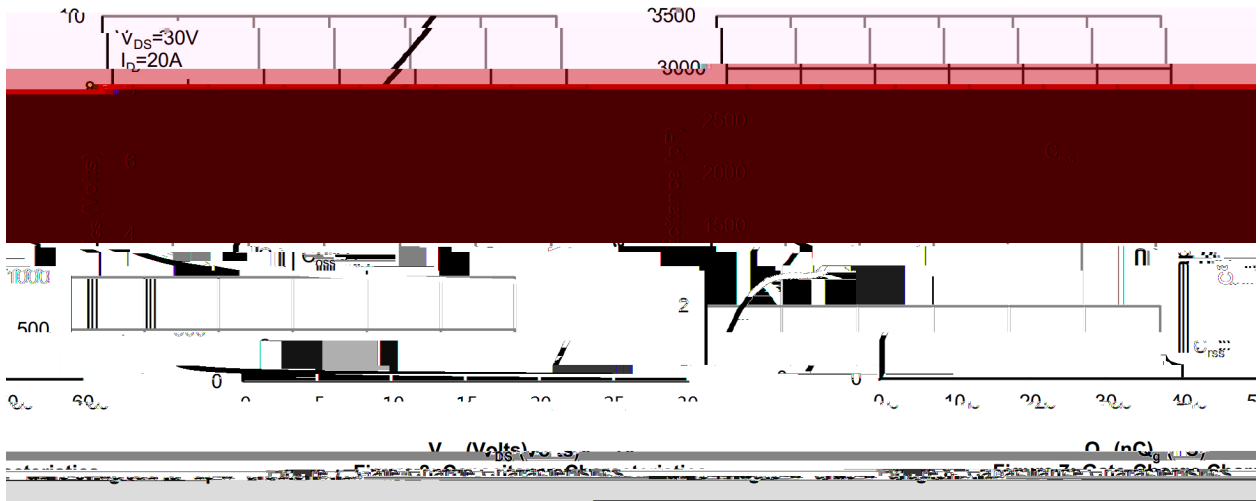


Figure 6: Body-Diode Characteristics

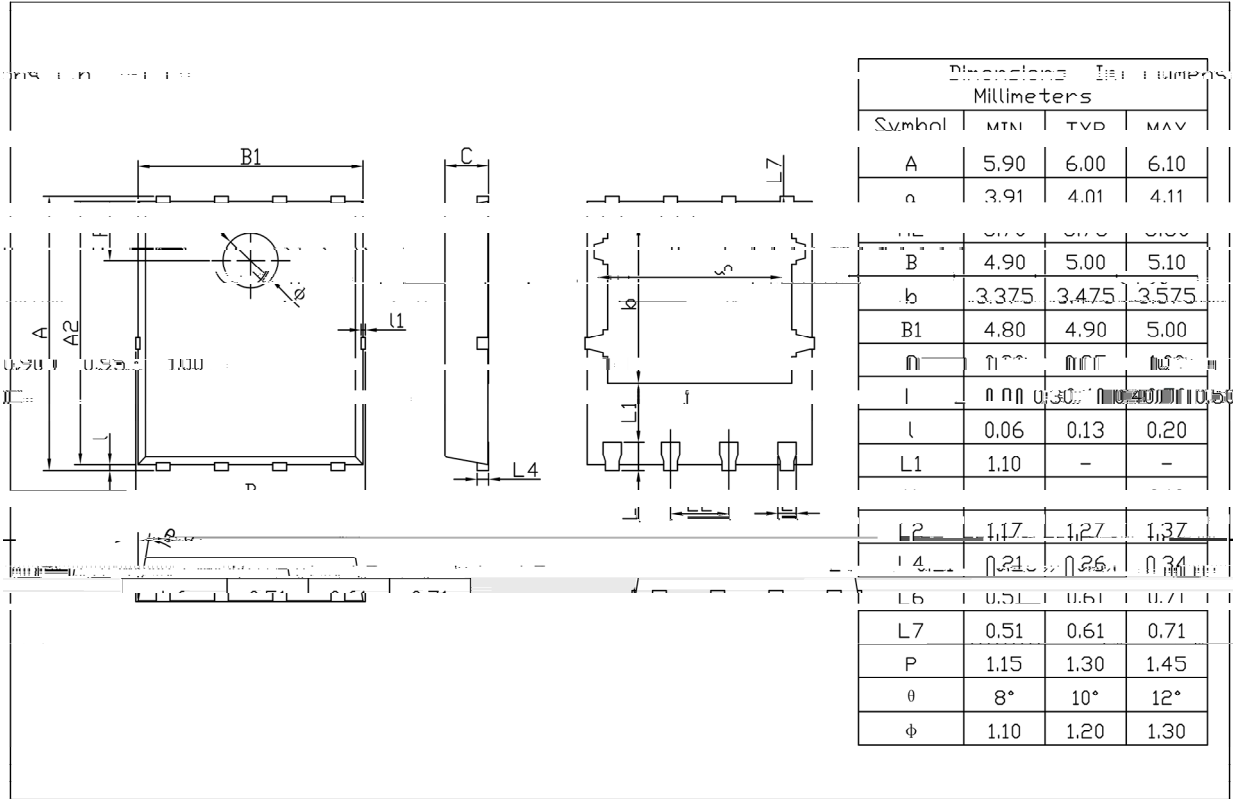
/ Electrical Characteristic Curve



/ Package Dimensions

PDFN5 X6

Unit:mm



Rev.01 202209

/ Marking Instructions



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050N06S
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Note
BR Company Code
Q: Automobile halogen-free product Code
050N06S Product Type Code
****: Lot No. Code, code change with Lot No

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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

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