

BRCs200N04YA

Rev.A May.-2023

/ Descriptions

40V 19A MOSFET
Synchronous Rectification, DC/DC Converter

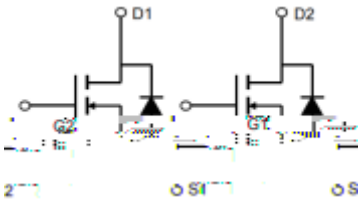
/ Features

$V_{DS}=40V$ $I_D=19A$
 $R_{DS(ON)}@10V<20m$ (Typ.18mR)
 $R_{DS(ON)}@4.5V<35m$ (Typ.24mR)
HF Product.

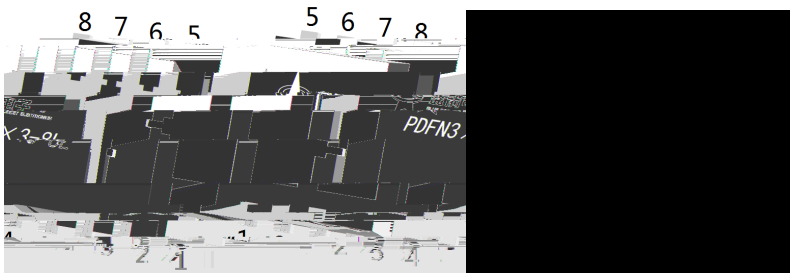
/ Applications

Synchronous Rectification, DC/DC Converter.

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.

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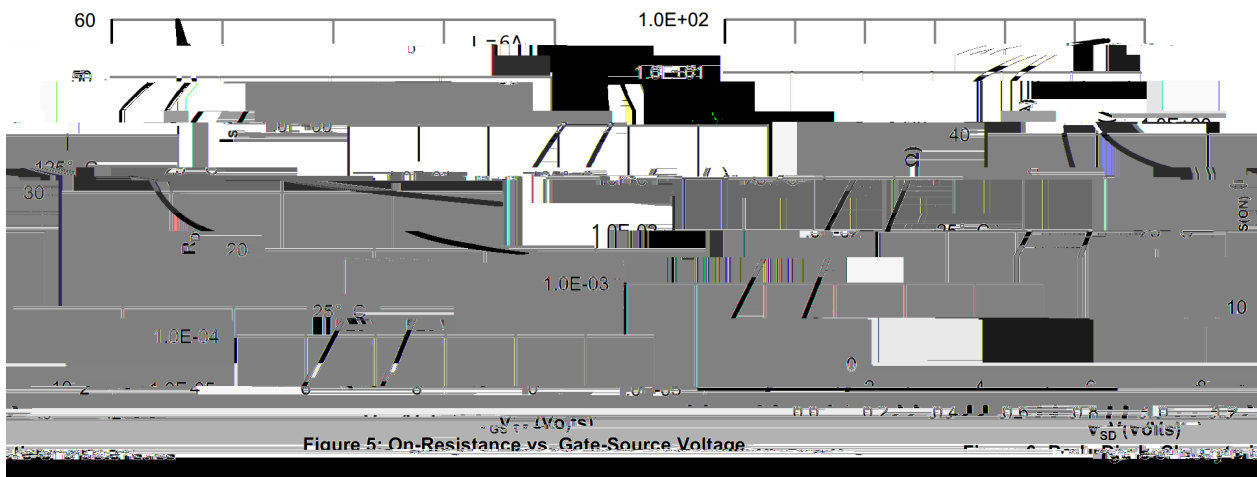
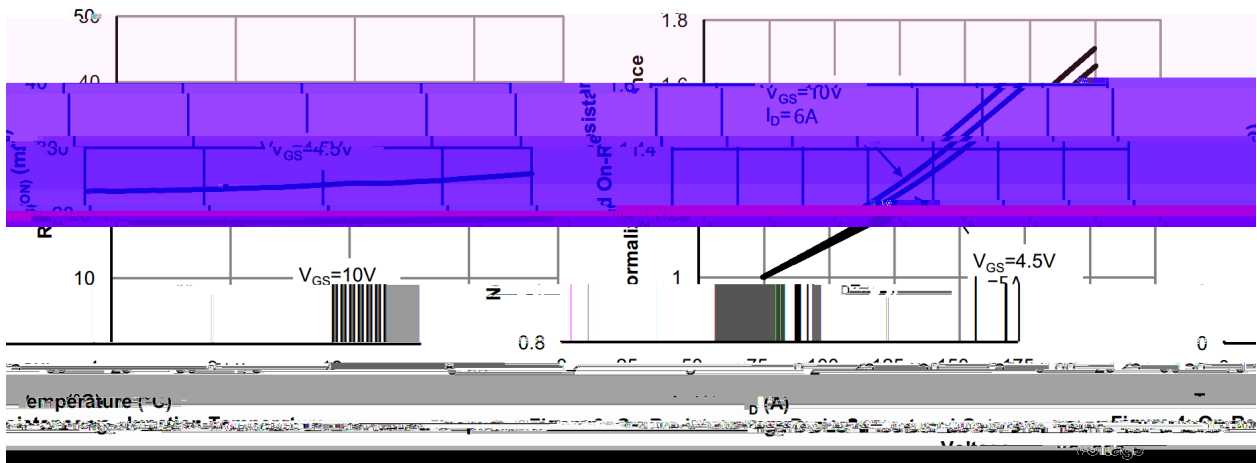
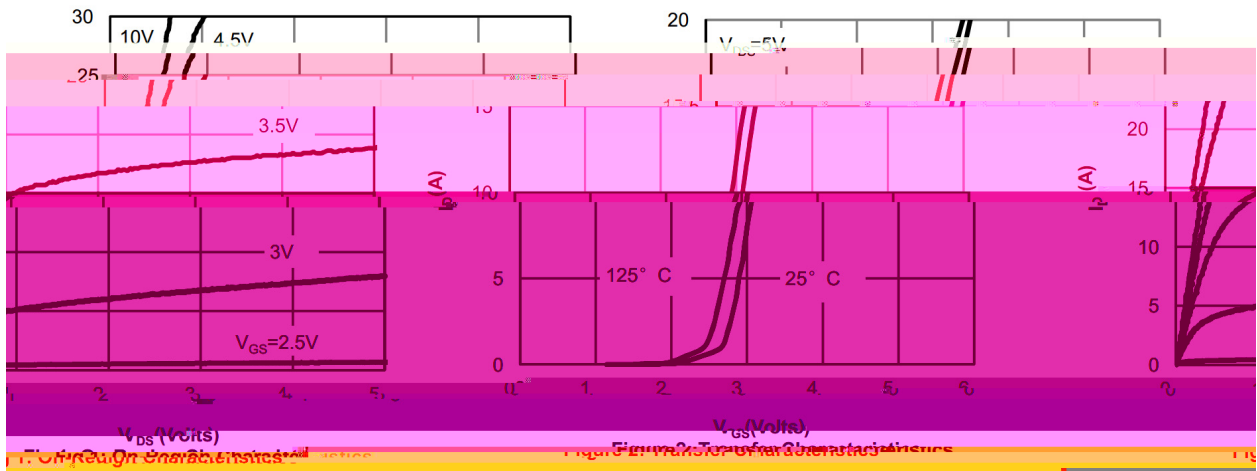
DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Drain Current	I		

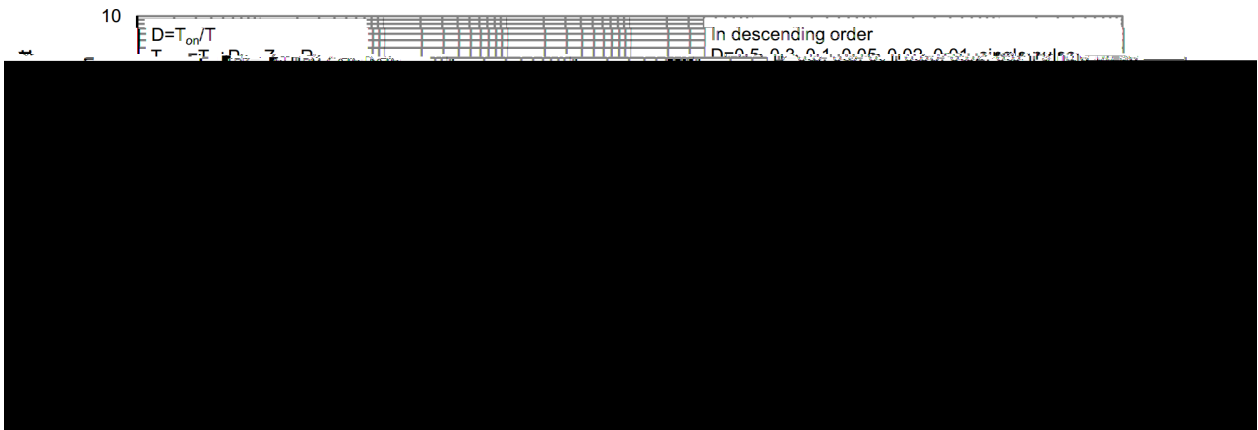
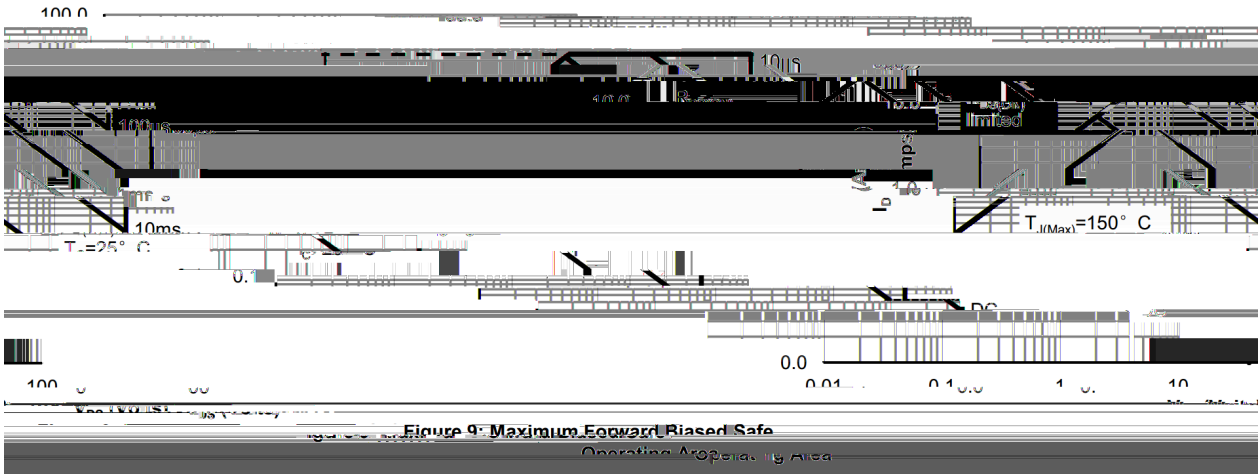
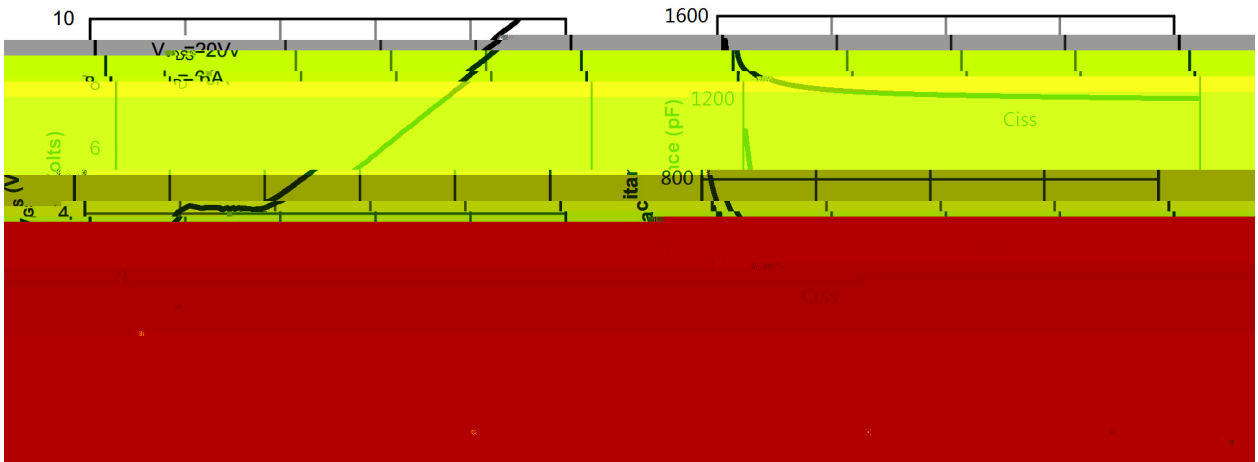
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=20V$ $V_{GS}=10V$ $R_L=3.3$ $R_{GEN}=3$		6.5		ns
Turn-On Rise Time	t_r			3.7		ns
Turn-Off Delay Time	$t_{d(off)}$				18.2	ns
Turn-Off Fall Time	t_f				7.1	ns

/ Electrical Characteristic Curve



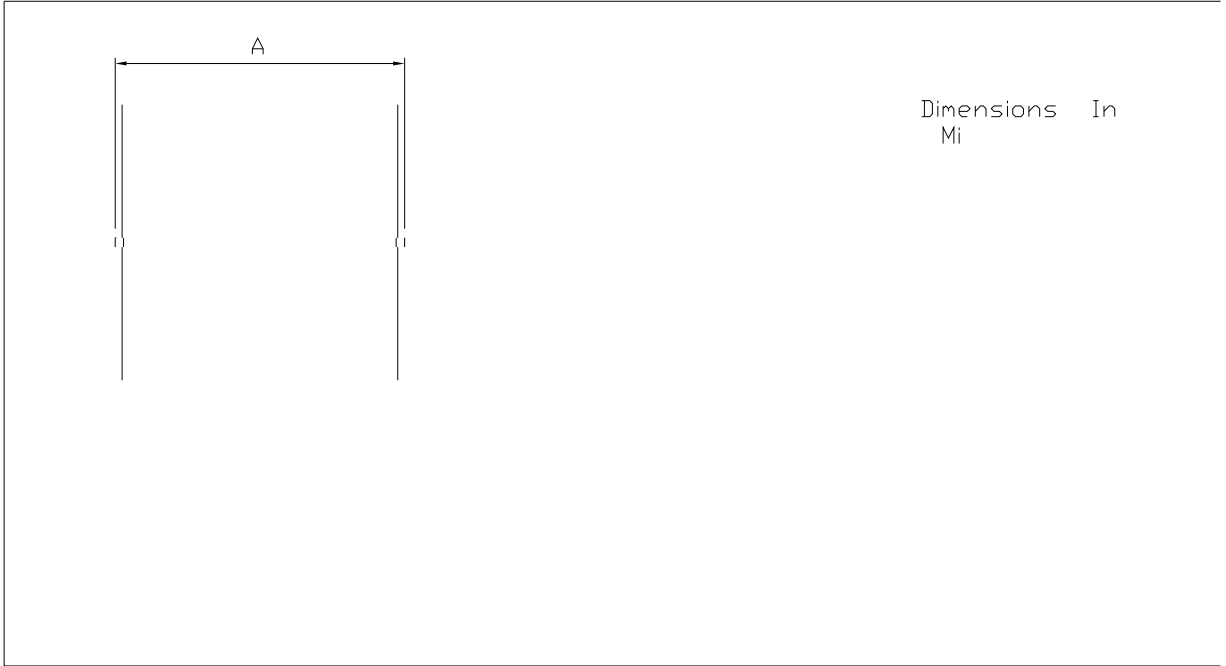
N- / N-CHANNEL Electrical Characteristic Curve



/ Package Dimensions

PDFN3X3-8L

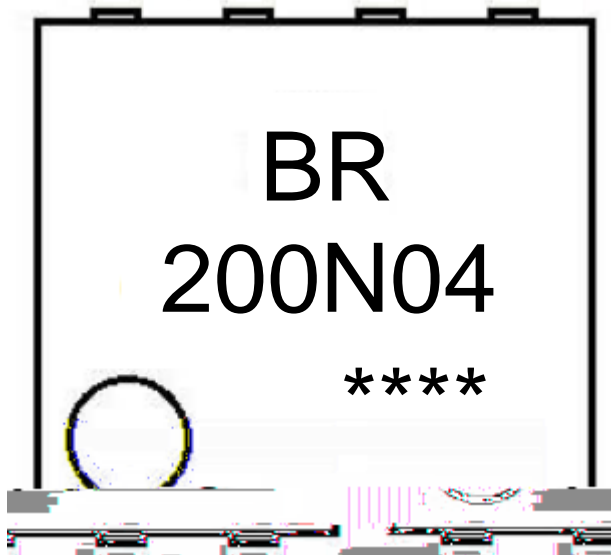
Unit:mm



Dimensions In
Mi

Rev.00 202011

/ Marking Instructions



BR

200N04

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Note:

BR: Company Code

200N04: Product Type Code

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

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