BRCS200N04YA

Rev.A May.-2023

DATA SHEET

/ Descriptions

SGIQ6Ö60;0 ṂṂꝈᴥ Q ᵹ PRV ʆῷẔ꒒

Grxe0h Q0FKDQQH0 PRVIHW lq d SGIQ6Ö60;0 S0dvwlf Sdfndjh1

/ Features

V_{DS}=40V I_D=19A

$R_{DS(ON)}$@10V<20mΩ(Typ.18mR)

$R_{DS(ON)}$@4.5V<35mΩ(Typ.24mR)

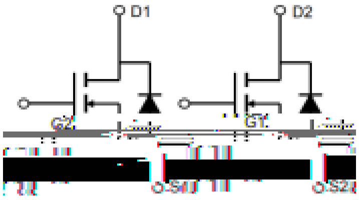
ῂ ꞙ ᵝ HF Product.

/ Applications

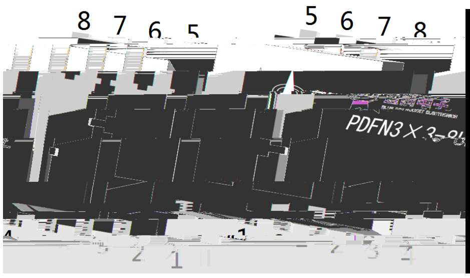
ª ℓ ῼ̃ ╙ ı GF2GF ج ῼ̋ ᴴ

Synchronous Rectification,DC/DC Converter.

/ Equivalent Circuit



/ Pinning



/ Marking

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See Marking Instructions.

v ῼ̃ Parameter	Ɏ ᴺ Symbol	ῼ̃Ӫ Rating	D Ᵽ Unit
Drain-Source Voltage	V_{DSS}	40	V
Drain Current	I		

/ Electrical Characteristics(Ta=25)

v ῼ Parameter	ɣ ᴺ Symbol	╝ ꜝ ꭲ Test Conditions	ῳ ṇ Ӫ Min	Ɛ ʓ Ӫ Typ	ῳ ᵶ Ӫ Max	ᴅ Ƕ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{DS}=20V V_{GS}=10V R_L=3.3Ω R_{GEN}=3Ω		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

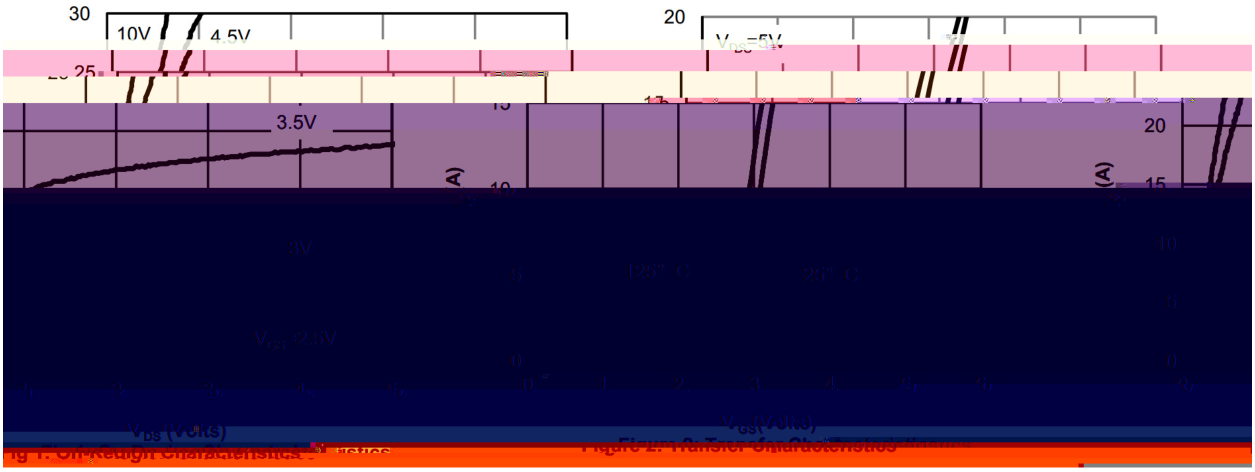


Figure 2: Transfer Characteristics

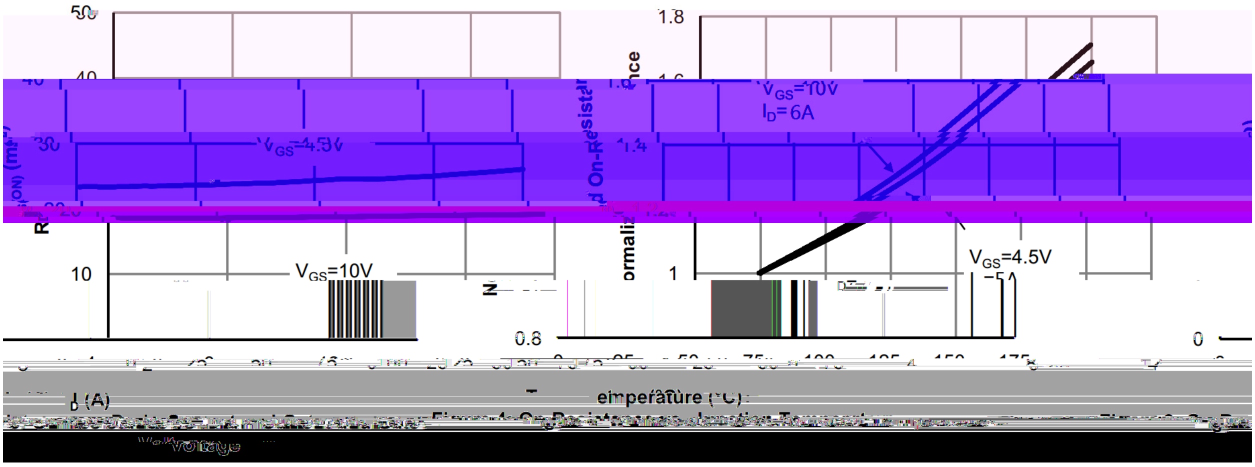
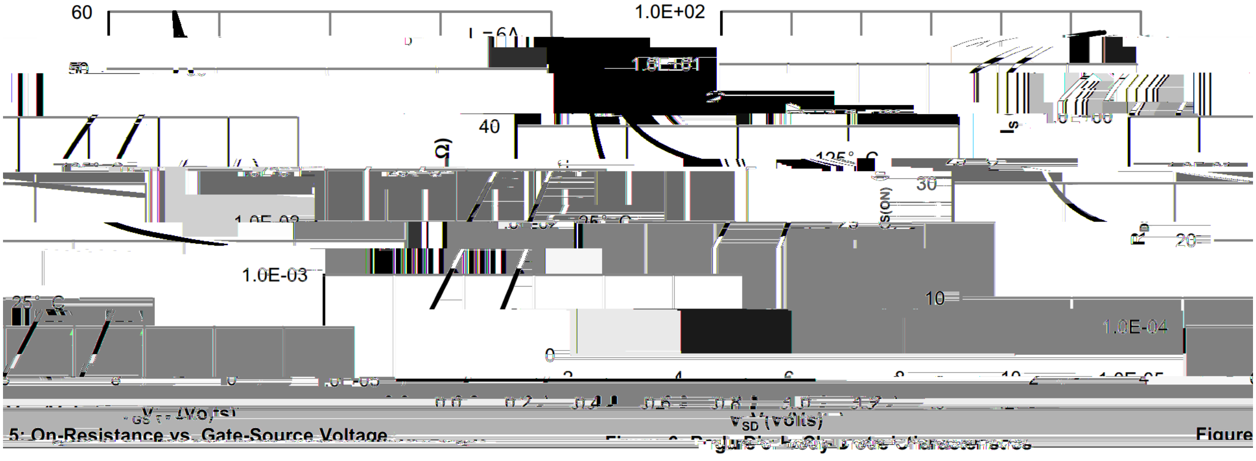


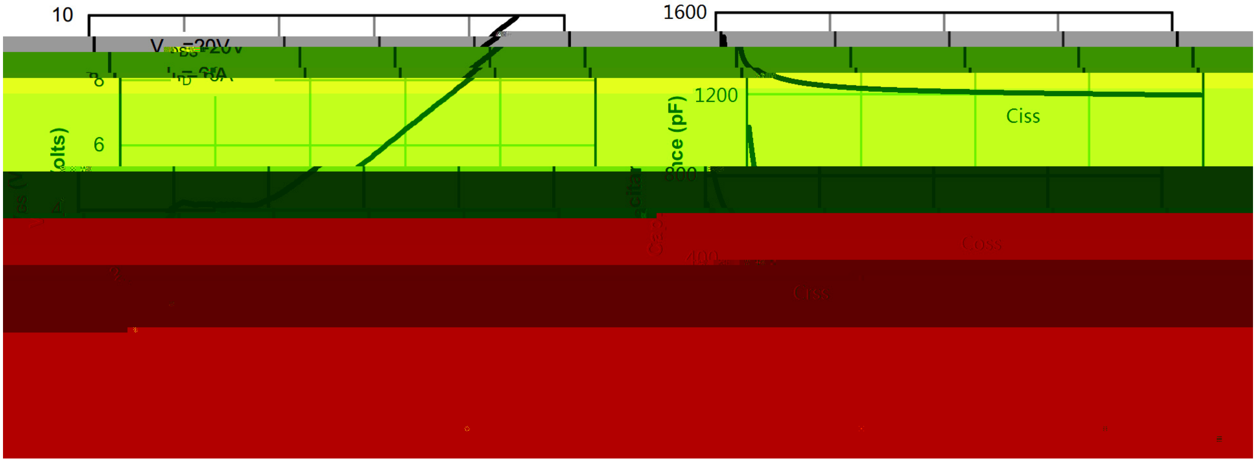
Figure 4: On-Resistance vs. Junction Temperature

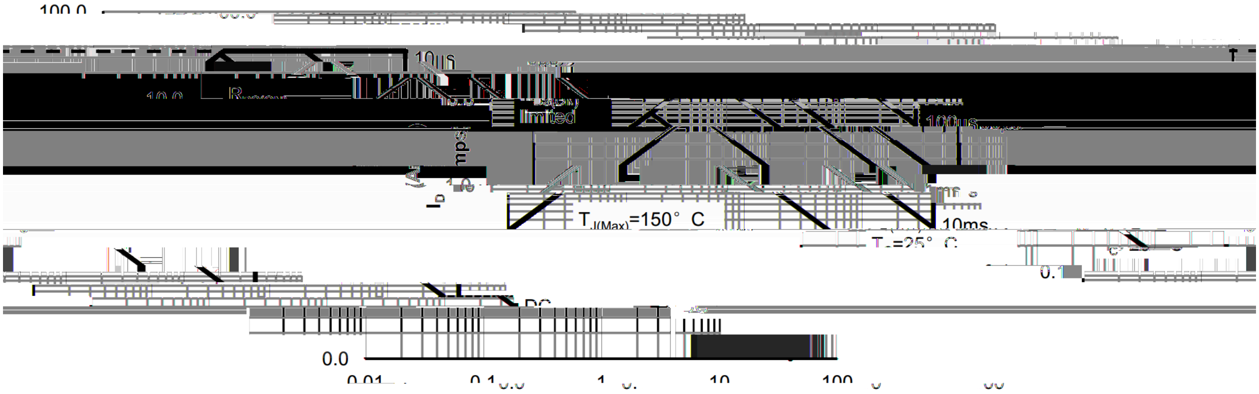


5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Characteristics

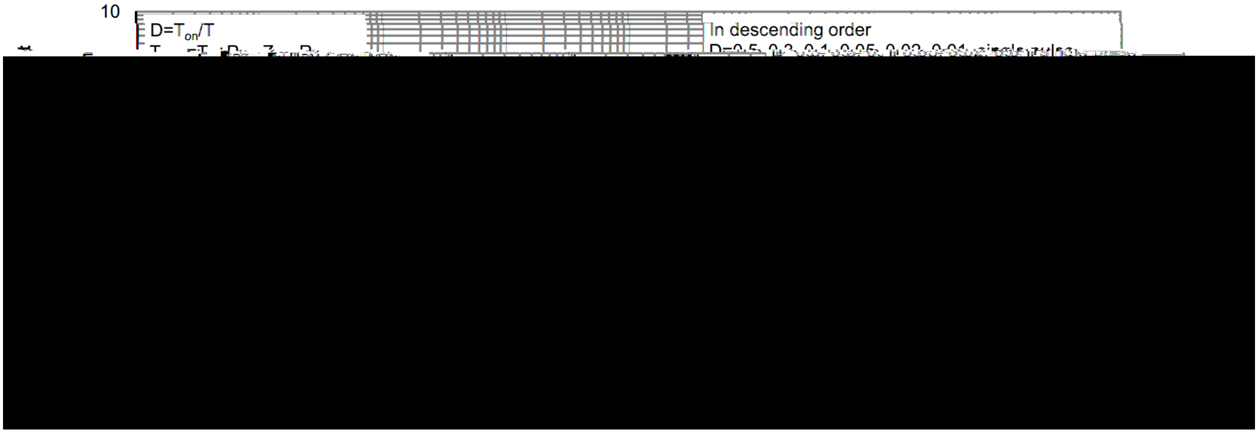
N- / N-CHANNEL Electrical Characteristic Curve



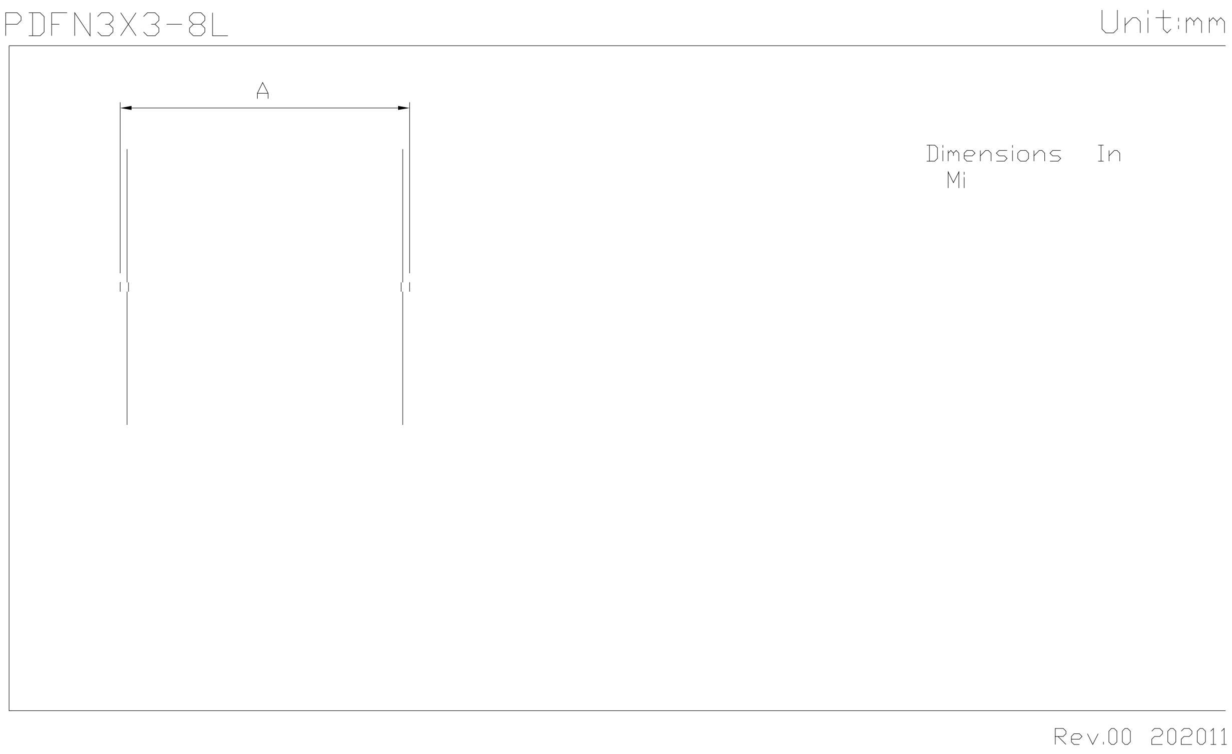


ard Biased Safe
Area

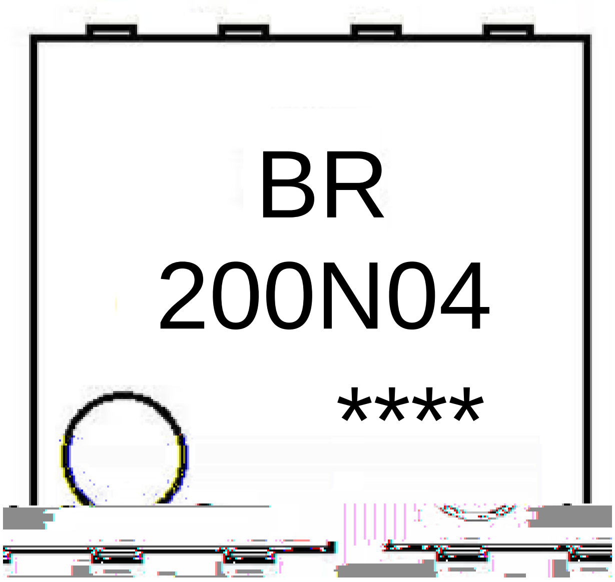
Figure 9: Maximum Forw
Operating



/ Package Dimensions



/ Marking Instructions



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Note:

BR:	Company Code
200N04:	Product Type Code
****:	Lot No. Code, code change with Lot No