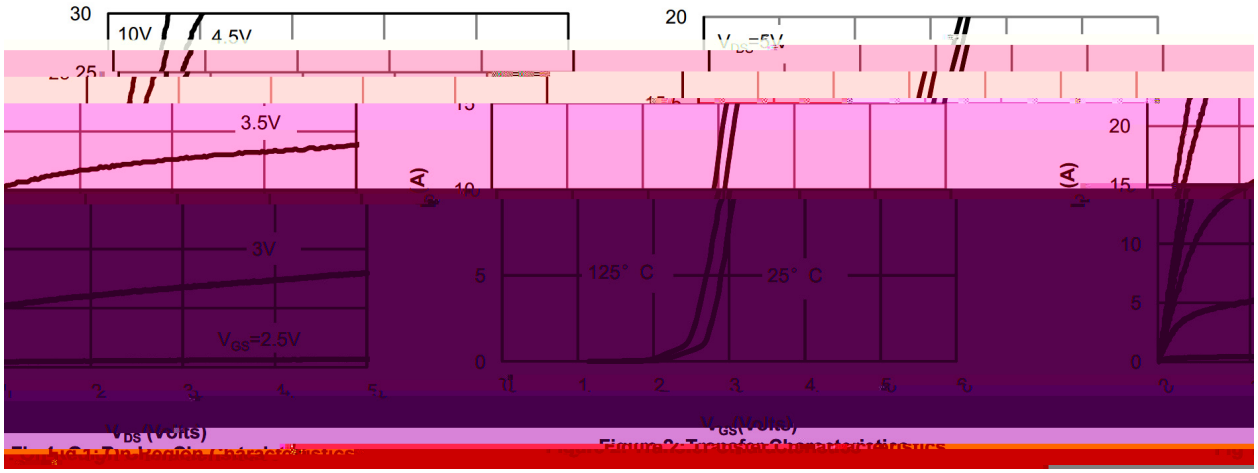
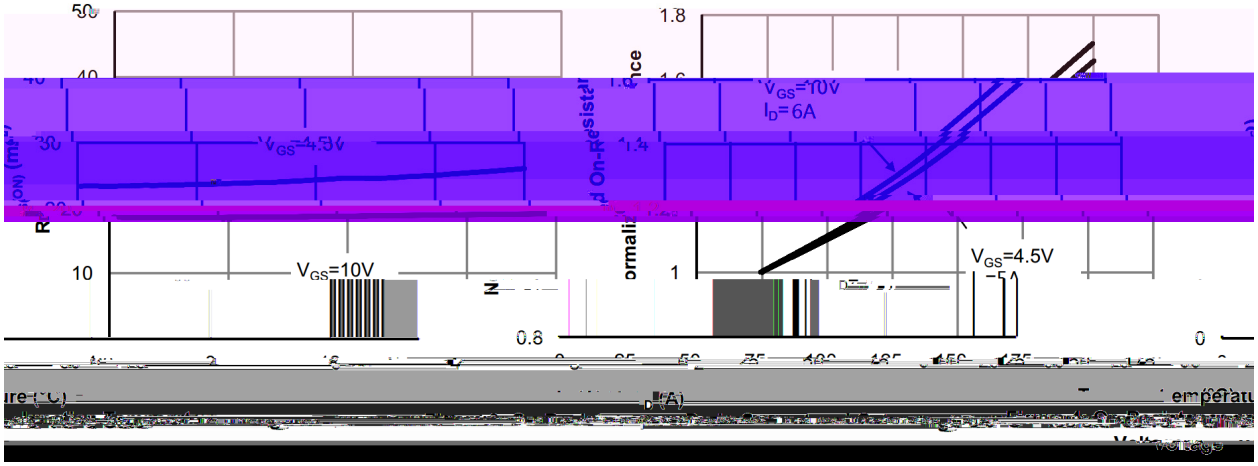
BRCS4614YAQ

Parameter	Symbol	Rating		Unit
		N-channe	P-channell	
Drain-Source Voltage	V_{DSS}	±40		V
Gate-Source Voltage	V_{GSS}	±20		V
Continuous Drain Current	I_D (T_C=25)	17	-12	A

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V	I_D=250μA	40	45		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=40V	V_{GS}=0V			1.0	μA
Gate-Body leakage current	I_{GSS}	V_{GS}=±20V	V_{DS}=0V			±100	

N- / N-CHANNEL Electrical Characteristic Curve





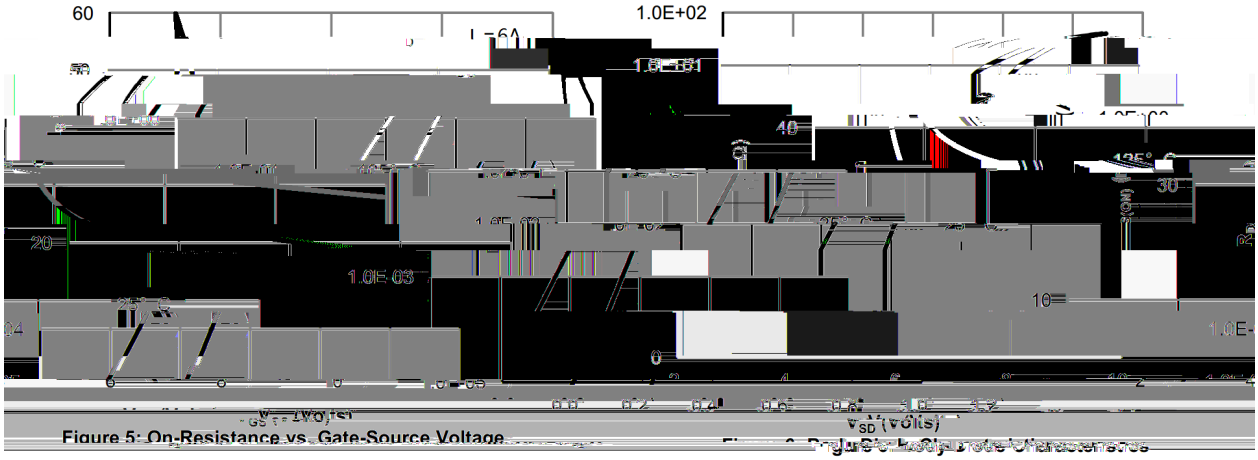


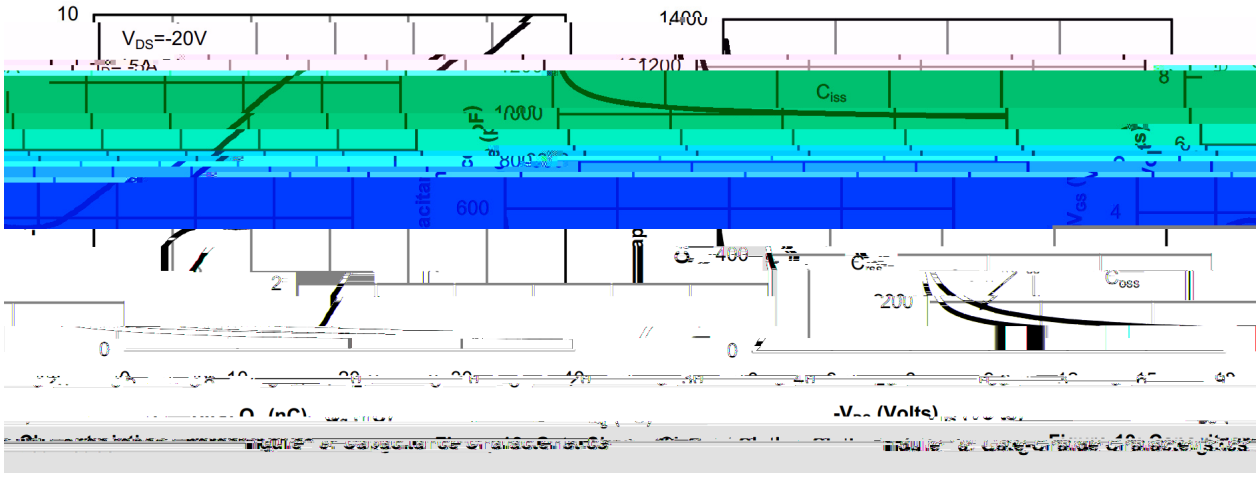
Figure 5: On-Resistance vs. Gate-Source Voltage

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=-250μA	-40	-46		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-40V V_{GS}=0V			-1.0	μA

Gate-Body leakage c-.18 Tc.0w GBSVSD±2V

P- / P-CHANNEL Electrical Characteristic Curve

P- / P-CHANNEL Electrical Characteristic Curve



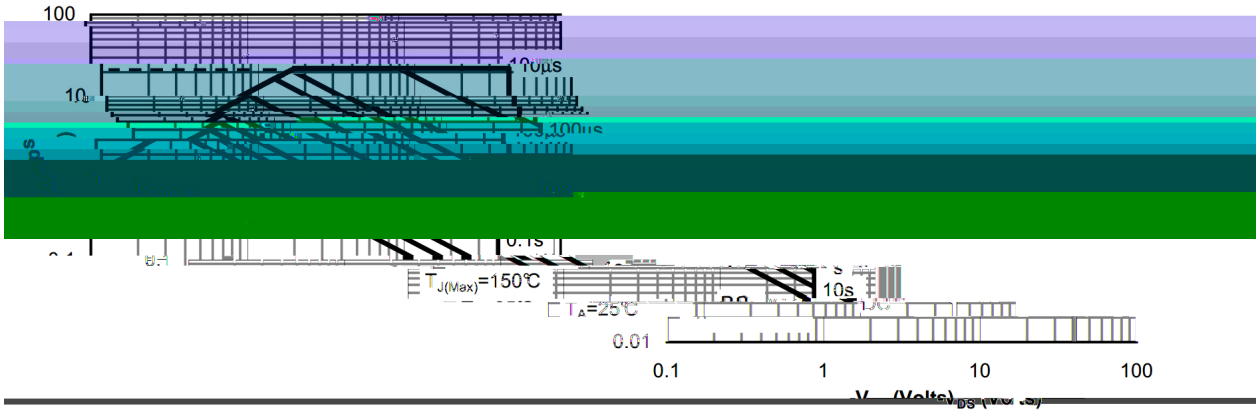
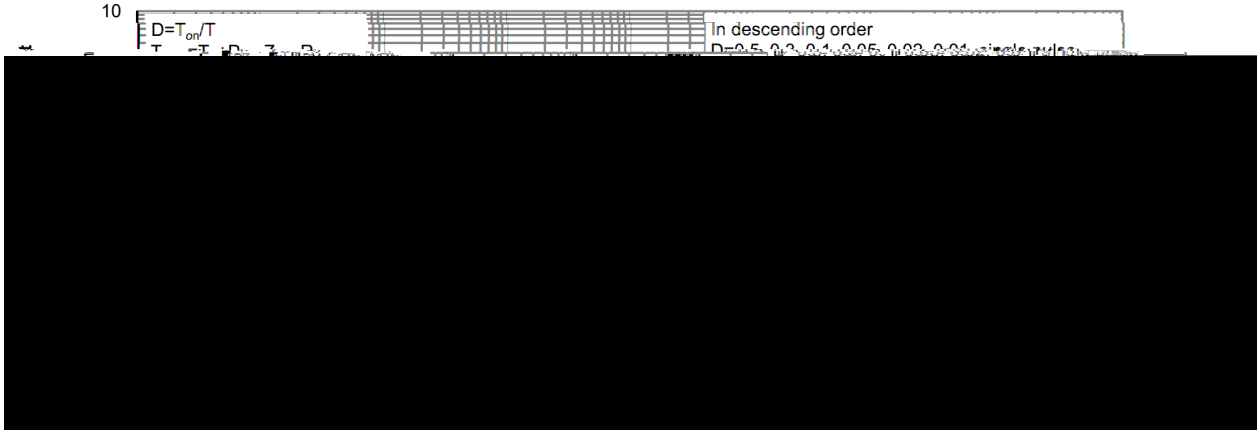


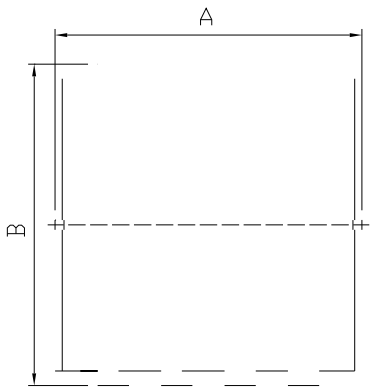
Figure 20: Maximum Forward Biased Safe Operating Area



/ Package Dimensions

PDFN3X3-8L

Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	3.20	3.30	3.40
A1	3.10	3.15	3.20
B	3.20	3.30	3.40
B1	2.95	3.00	3.05

Rev.00 202011

/ Marking Instructions

BR

Q

4614

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Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
4614:	Product Type Code
****:	Lot No. Code, code change with Lot No