Parameter		Symbol	Rating		Unit
			N-channel	P-channel	
Drain-Source Voltage		V_{DSS}	60	-60	V
Gate-Source Voltage		V_{GSS}	±20		V
Continuous Drain Current	T_A=25	I_D	5.2	-5.2	A
	T_A=70	I_D	4	-4	A
Pulsed Drain Current		I_{DM}	20.8	-20.8	A
Power Dissipation	T_A=25	P_D	2	2	W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250 A	60	65		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=60V V_{GS}=0V			1.0	A
		V_{DS}=60V V_{GS}=0V T_J=55			5.0	A
Gate-Body leakage current	I_{GSS}	V_{GS}=±20V V_{DS}=0V			100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=250 A	1.0	1.5	3	V

N- / N-CHANNEL Electrical Characteristic Curve

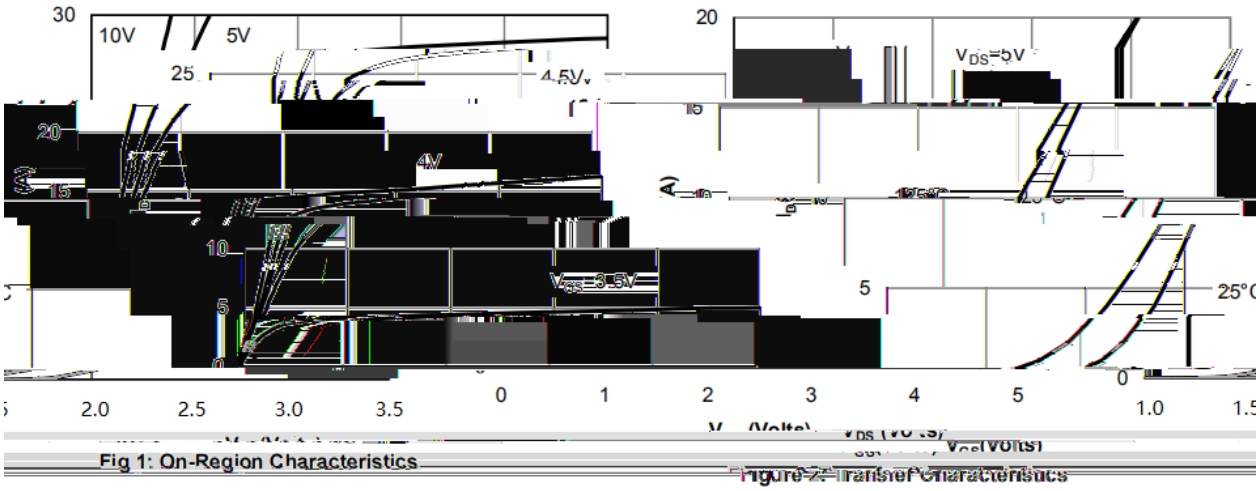
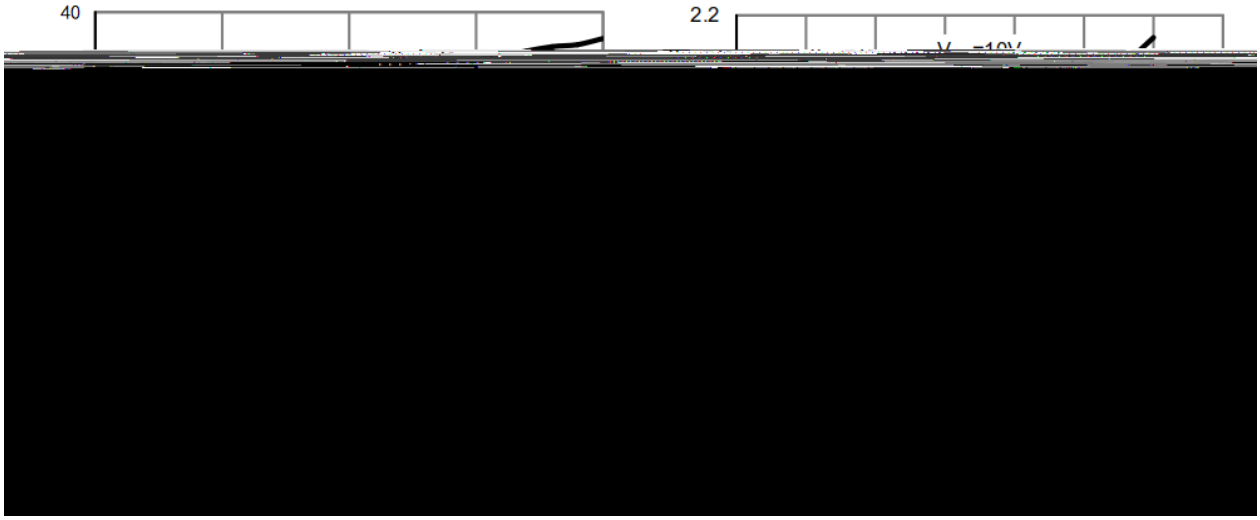


Fig 1: On-Region Characteristics

Figure 2: Transfer Characteristics



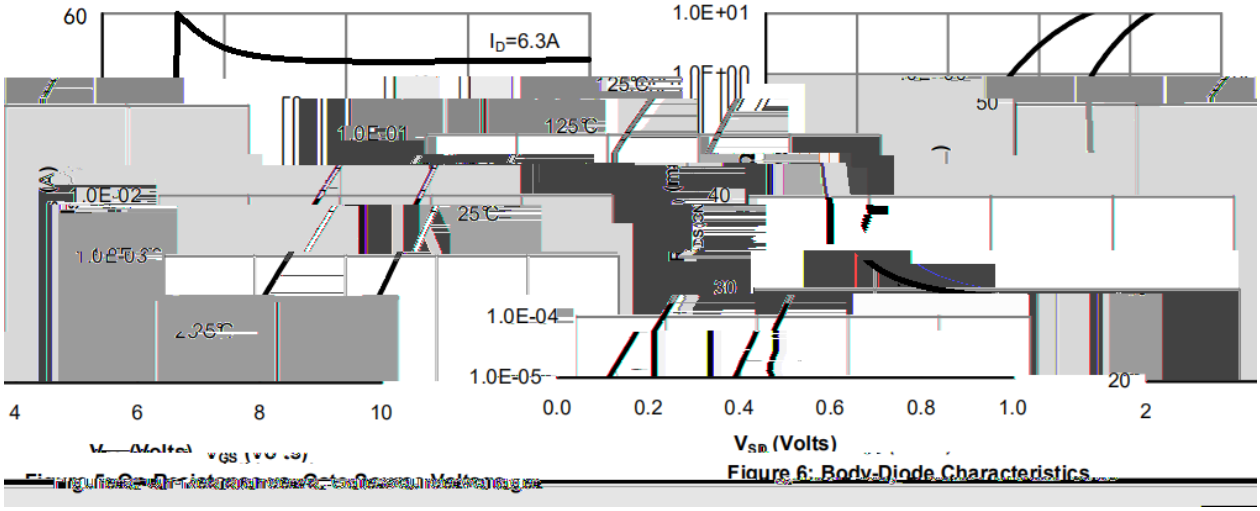
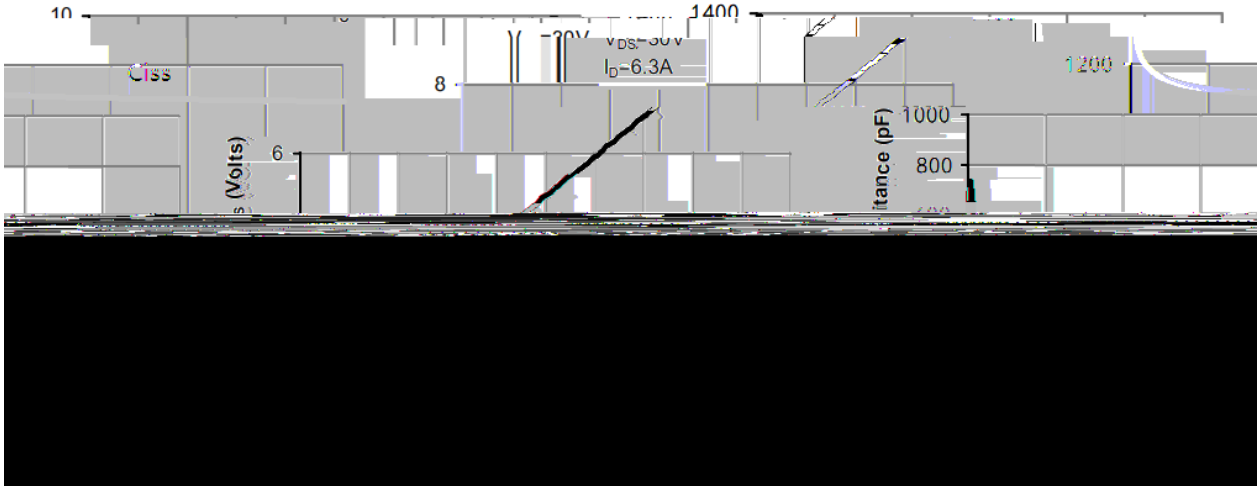
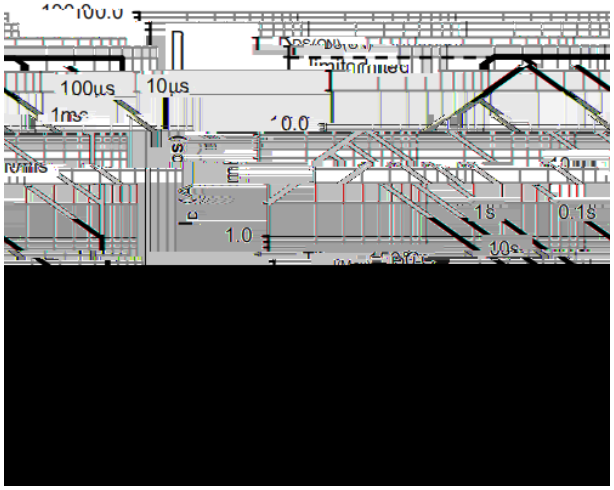
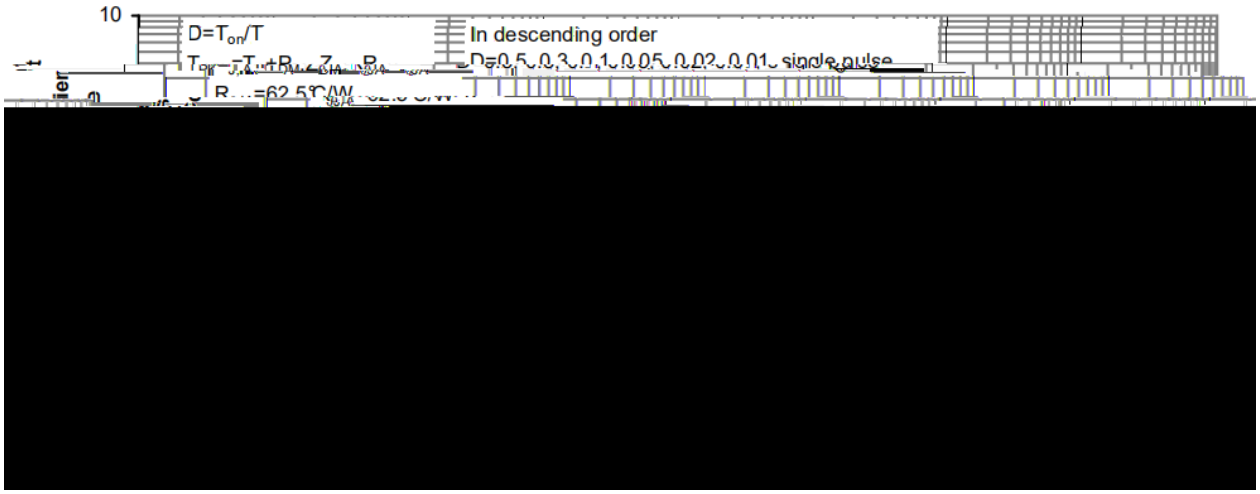


Figure 6: Body-Diode Characteristics

N- / N-CHANNEL Electrical Characteristic Curve





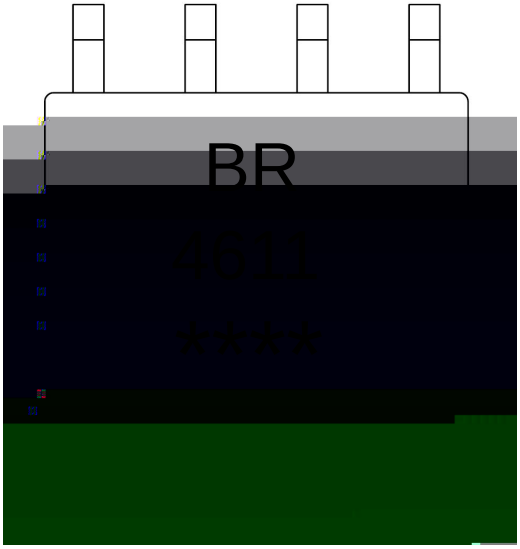


Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=-250 A	-60	-68		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-60V V_{GS}=0V			-1.0	A
		V_{DS}=-60V V_{GS}=0V T_J=55			-5.0	A

P- / P-CHANNEL Electrical Characteristic Curve

P-11

/ Marking Instructions



BR

4611

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Note:

BR:	Company Code.
4611:	Product Type.
****:	Lot No. Code, code change with Lot No.

BRCS4611SC