

A	2021.10.26	All	AOS-AON6298		

BRCS150N10SZC

Rev.A Oct

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	100	V
Continuous Drain Current	I_D	46	A
Pulsed Drain Current	I_{DM}	184	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25^\circ C)$	78	W
Avalanche energy(L=0.5mH)	E_{AS}	24.5	mJ
Avalanche Current(L=0.5mH)	I_{AS}	7.0	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	$^\circ C$
Maximum Junction-to-Ambient	$t \leq 10s$	R_{JA}	/W
	Steady-State		
Maximum Junction-to-Case	Steady-State	R_{JC}	1.6

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D=250\mu A, V_{GS}=0V$	100	109		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=100V, V_{GS}=0V$			1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS}=0V, V_{GS}=\pm 20V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	1.0	1.7	2.5	V

Static Drain-Source On-Resistance R_{in}

BRCS150N10SZC

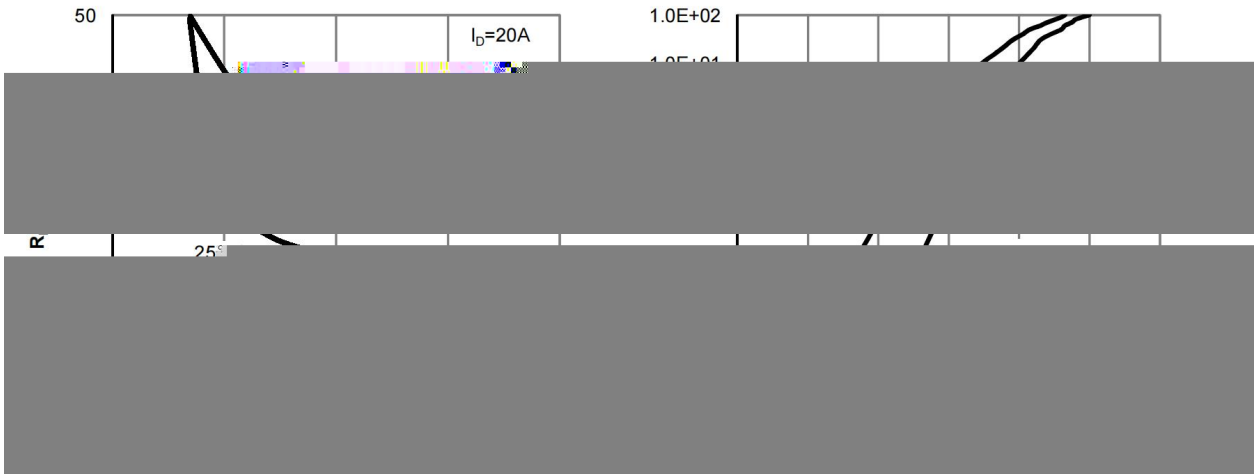
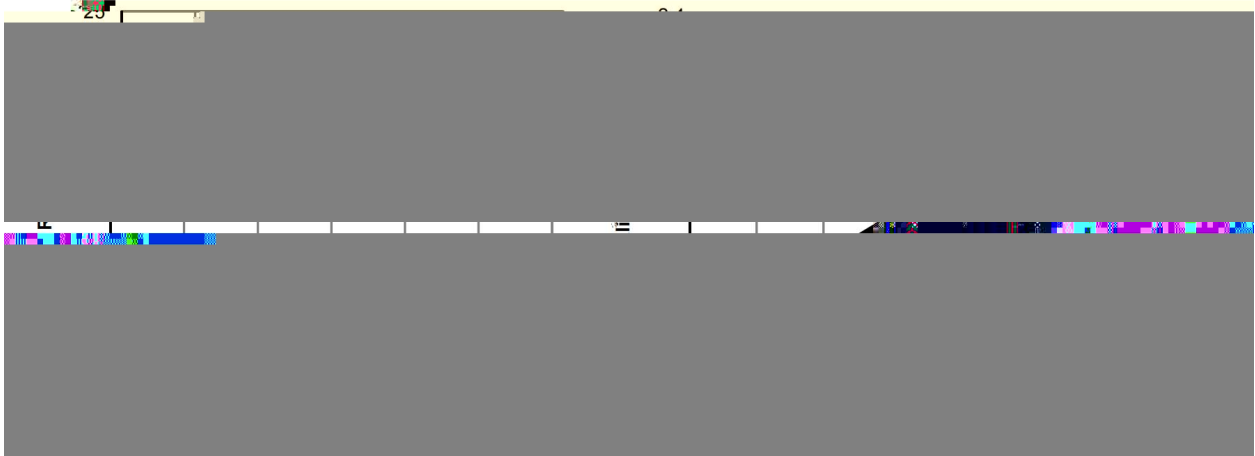
Rev.A Oct.-2021



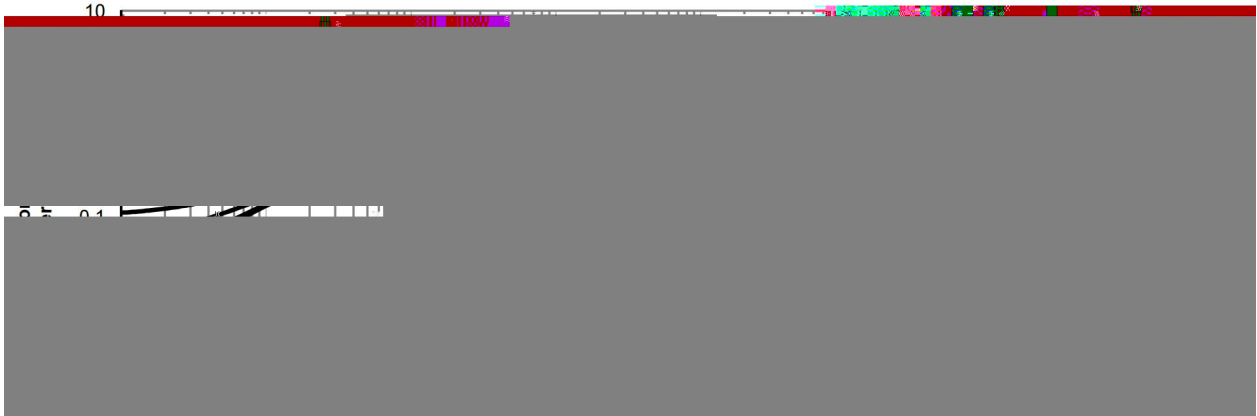
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ R	Max	Unit
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/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



BRCS150N10SZC

Rev.A Oct.-2021

DA

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

Note:

1 150 180

