

BRCS150N10SZC

Rev.A Oct.-2021



A	2021.10.26	All	AOS-AON6298		

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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		$P_D(T_c=25^\circ\text{C})$	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	$^\circ\text{C}$
Maximum Junction-to-Ambient	$t \leq 10\text{s}$	$R_{\theta JA}$	17	/ W
	Steady-State		55	
Maximum Junction-to-Case	Steady-State	$R_{\theta JC}$	1.6	

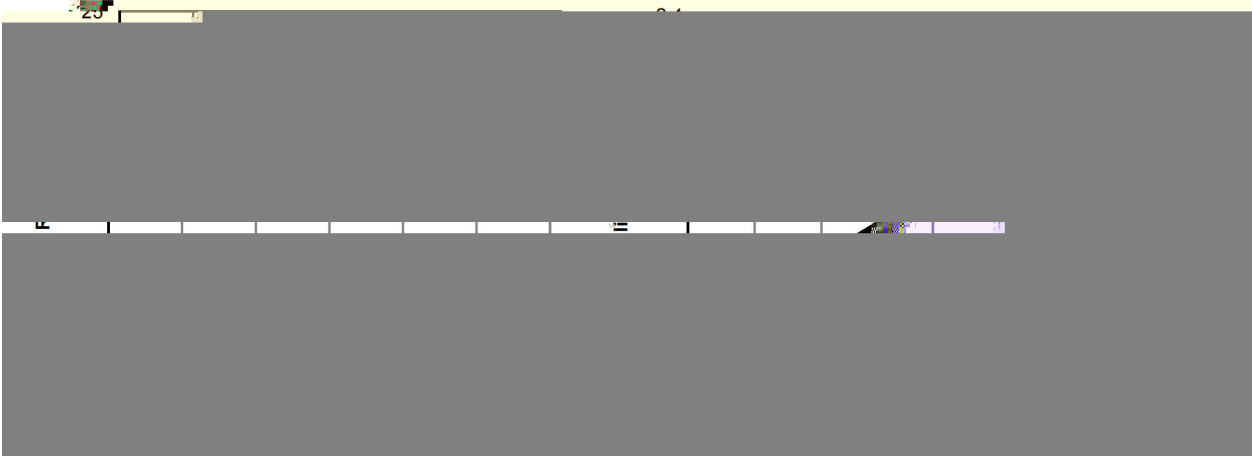
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D=250\mu\text{A}, V_{GS}=0\text{V}$	100	109		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=100\text{V}, V_{GS}=0\text{V}$			1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS}=0\text{V}, V_{GS}=\pm 20\text{V}$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

Static Drain-Source On-Resistance $R_{DS(on)}$

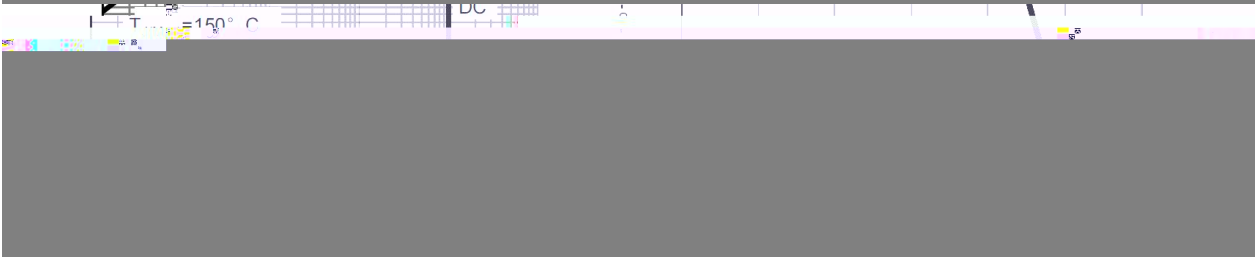
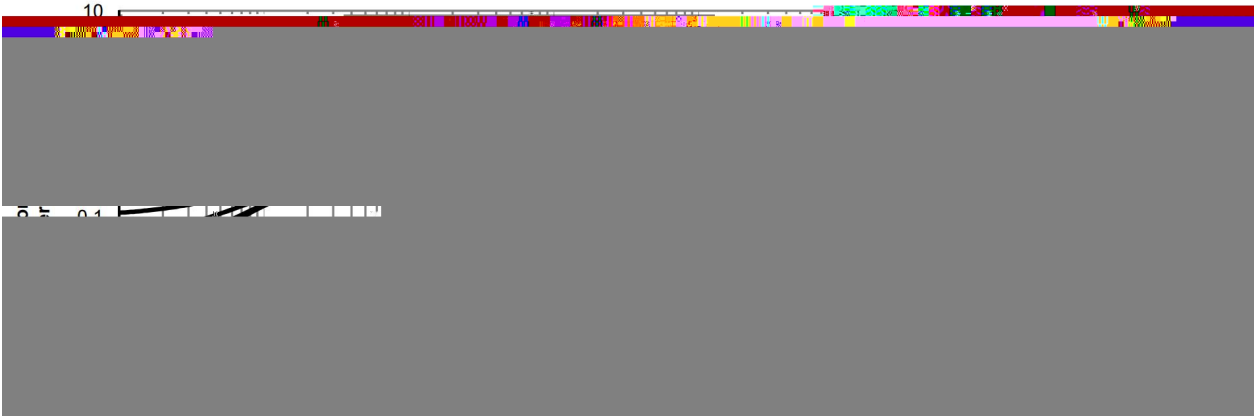
V_{GS}

	e						
R	Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
					R		

/ Electrical Characteristic Curve



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

Note:

1 150 180

