



# BRCS250N03DMF

Rev.A Nov.-2021



蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		$V_{DSS}$	30	V
Gate-Source Voltage		$V_{GSS}$	$\pm 20$	V
Drain Current – Continuous		$I_D$	5.5	A
Pulsed Drain Current		$I_{DM}$	27.5	A
Power Dissipation		$P_D$	1.3	W
Storage Temperature Range		$T_{stg}$	-55 150	
Maximum Junction-to-Ambient	t 10s	$R_{JA}$	95	/W
Maximum Junction-to-Ambient	Steady-State		150	
Maximum Junction-to-Lead	Steady-State	$R_{JL}$	68	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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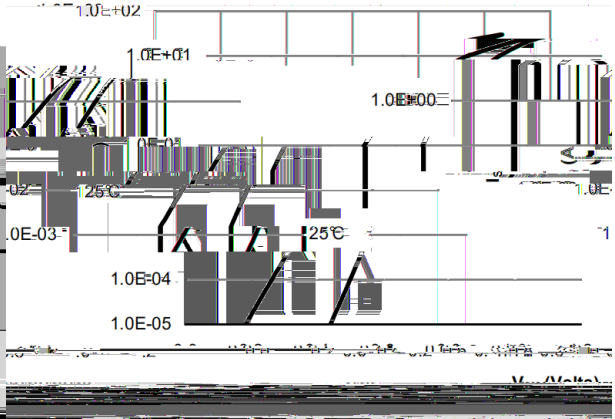
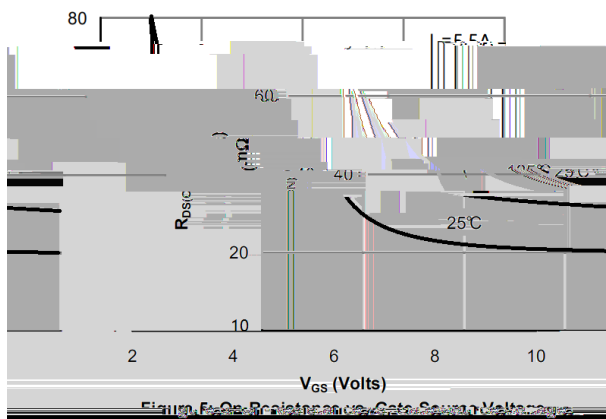
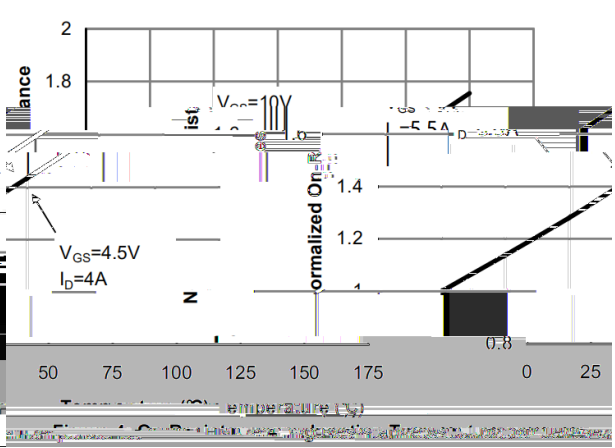
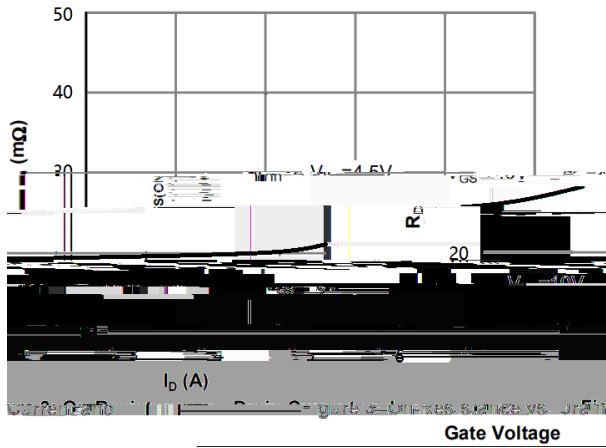
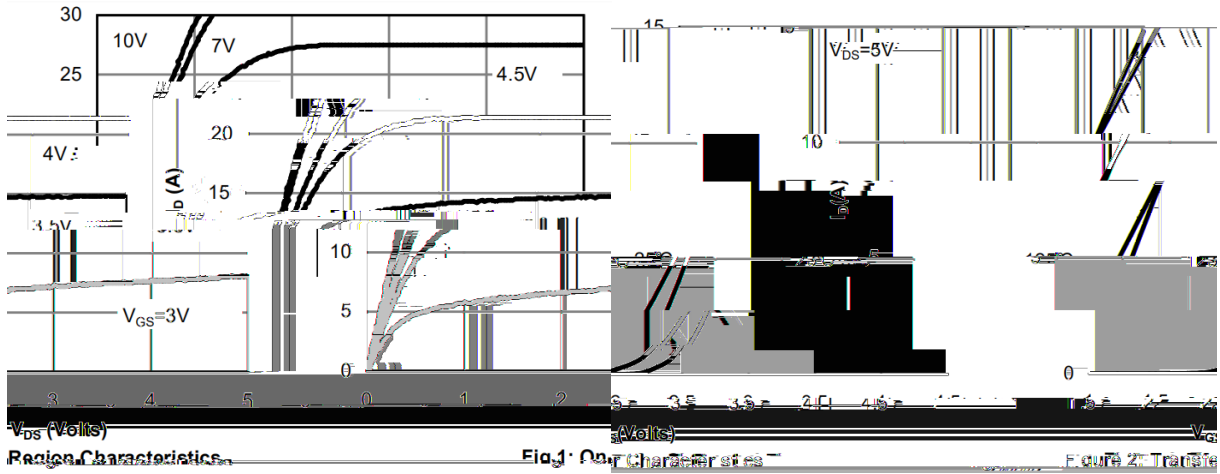


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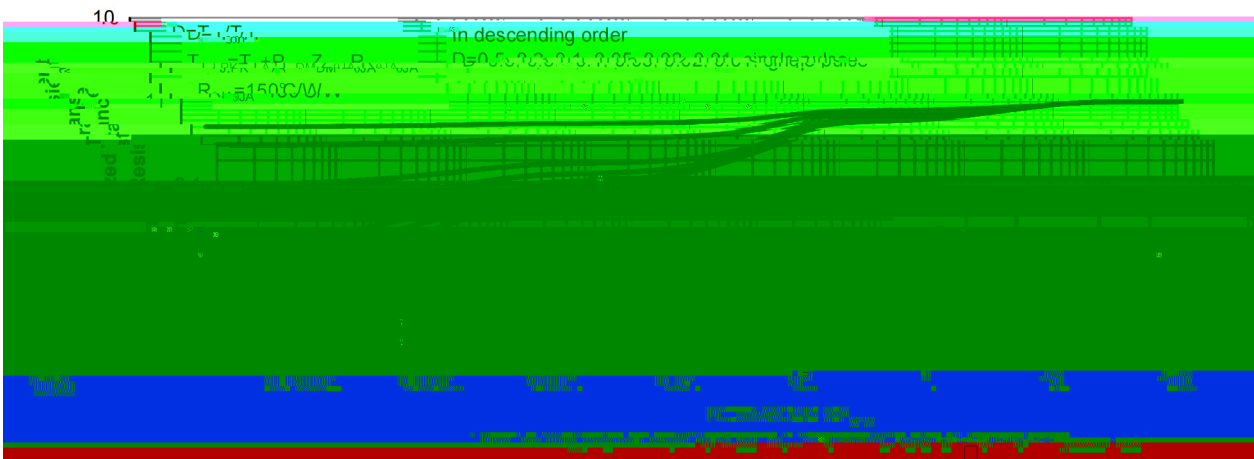
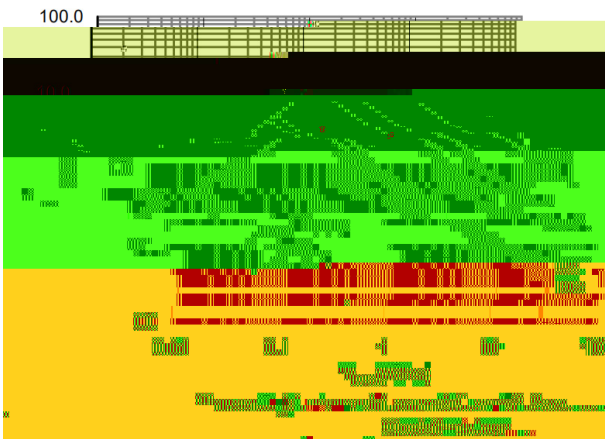
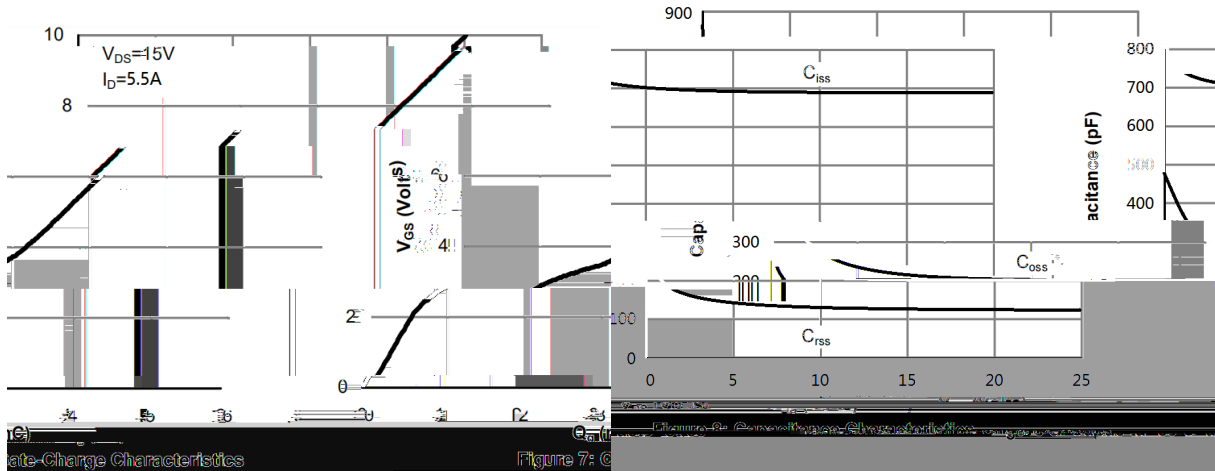
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Capacitance	Ciss	VGS=0V, VDS=25V f=1MHz		690		pF
Output Capacitance	Coss			200		
Reverse Transfer Capacitance	Crss			130		
Gate resistance	Rg	VGS=0V, VDS=0V f=1MHz		3.0		
Total Gate Charge	Qg(10V)	VGS=10V, VDS=15V, ID=5.5A		5.2		nC
Total Gate Charge	Qg(4.5V)			2.5		
Gate Source Charge	Qgs			0.8		
Gate Drain Charge	Qgd			1.3		
Turn-On Delay Time	td(on)	VGS=10V RL=3 VDS=15V RGEN=3		4.5		ns
Turn-On Rise Time	tr			2.5		
Turn-Of						

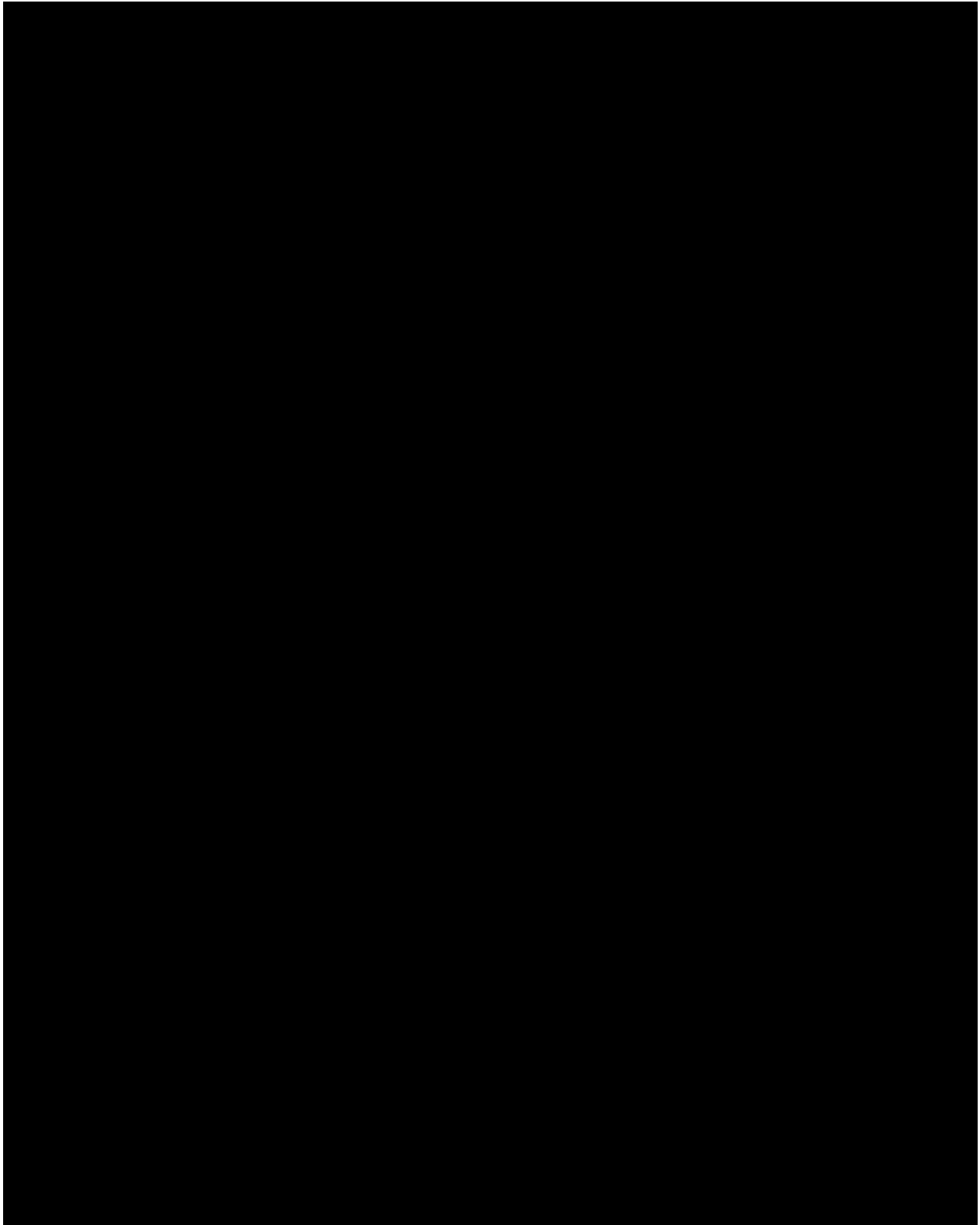
/ Electrical Characteristic Curve



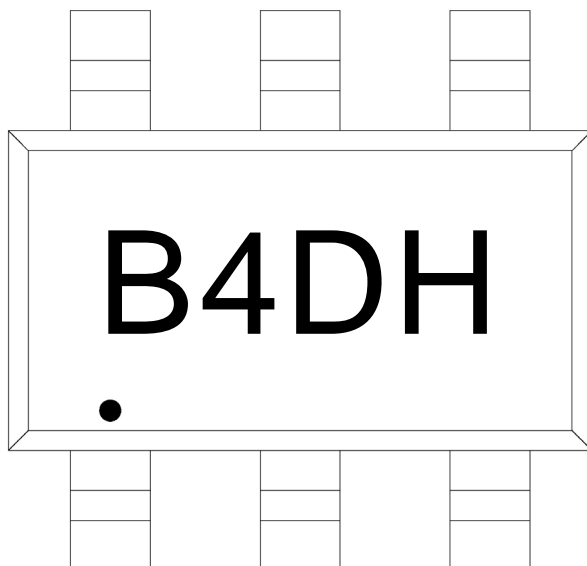
**/ Electrical Characteristic Curve**



/ Package Dimensions



/ Marking Instructions



B4D:

H:

Note:

B4D     Product Type Code

H:        Company Code.

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