

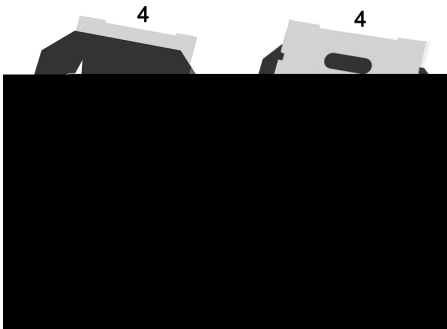
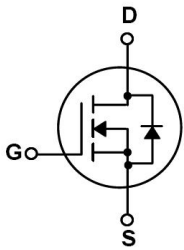
BRCs070N03DP

Rev.A Mar.-2023

TO-252 N
N-CHANNEL MOSFET in a TO-252 Plastic Package.

Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products, Meet the stringent requirements of automotive applications.



PIN 1 G PIN 2 D PIN 3 S PIN 4 D

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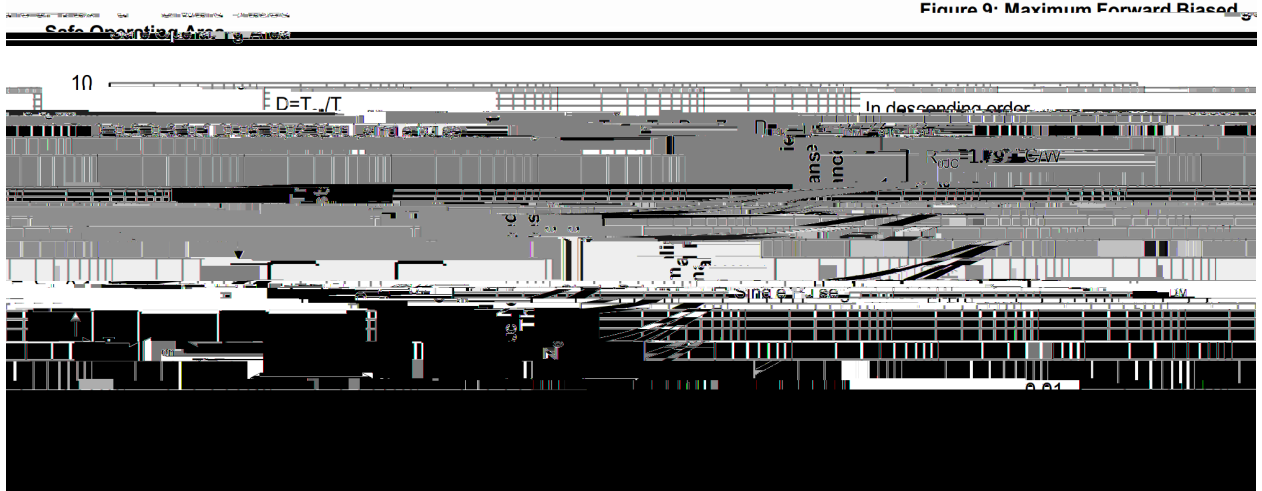
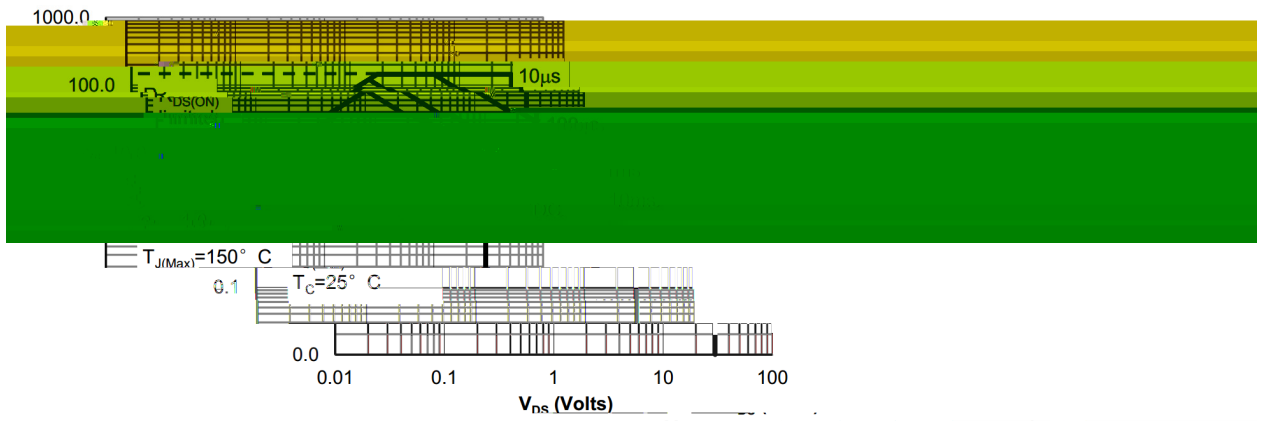
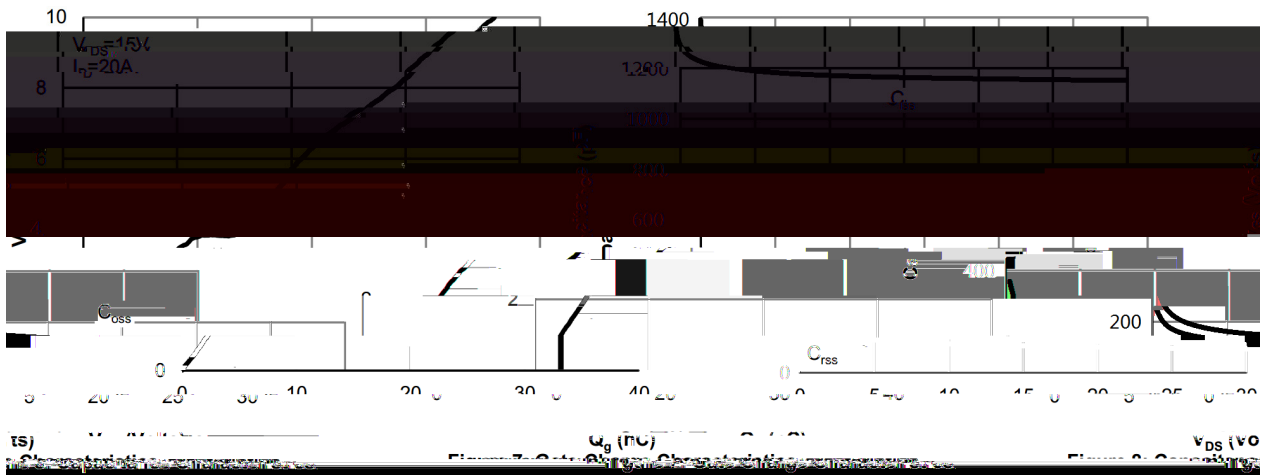
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	30	V
Drain Current	$I_D(T_C=25^\circ C)$	77	A
Drain Current - Pulsed	I_{DM}	165	A
Gate-Source Voltage	V_{GS}	± 20	

/ Electrical Characteristics(Ta=25)

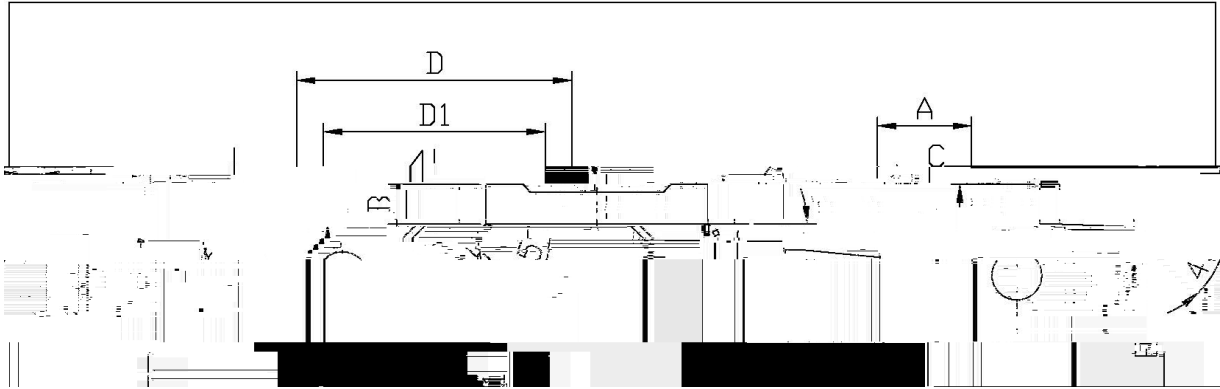
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=0.75$ $R_{GEN}=3$		11		ns
Turn-On Rise Time	t_r			14		
Turn-Off Delay Time	$t_{d(off)}$			38		
Turn-Off Fall Time	t_f			10		

BRCS070N03DP

/ Electrical Characteristic Curve



/ Package Dimensions



, M y f / Marking Instructions

BR
070N03

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BR y , [W A
070N03 y ° Z W A
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Note:
BR: Company Code
070N03: Product Type Code
****: Lot No. Code, code change with Lot No

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^aϕ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ »] / Resistance to Soldering Heat Test Conditions

605 r5 -