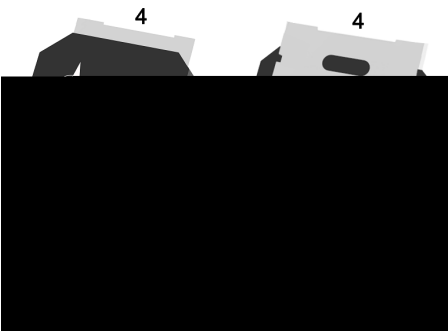
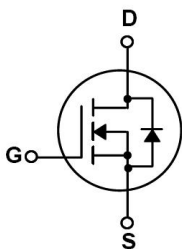


TO-252 N 1
N-CHANNEL MOSFET in a TO-252 Plastic Package.

U_{GS} , $r_{DS(on)}$, Q_g , F_{SW}
Low $R_{DS(on)}$, low gate charge, low C_{RSS} , fast switching, HF Product.

1 H_{FE} 2 $GF2GF$ 3 Q_{G1} 4 Q_{G2}
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.



PIN1 G PIN 2 D PIN 3 S PIN 4 D

BRCS070N03DP

Rev.A Mar.-2023

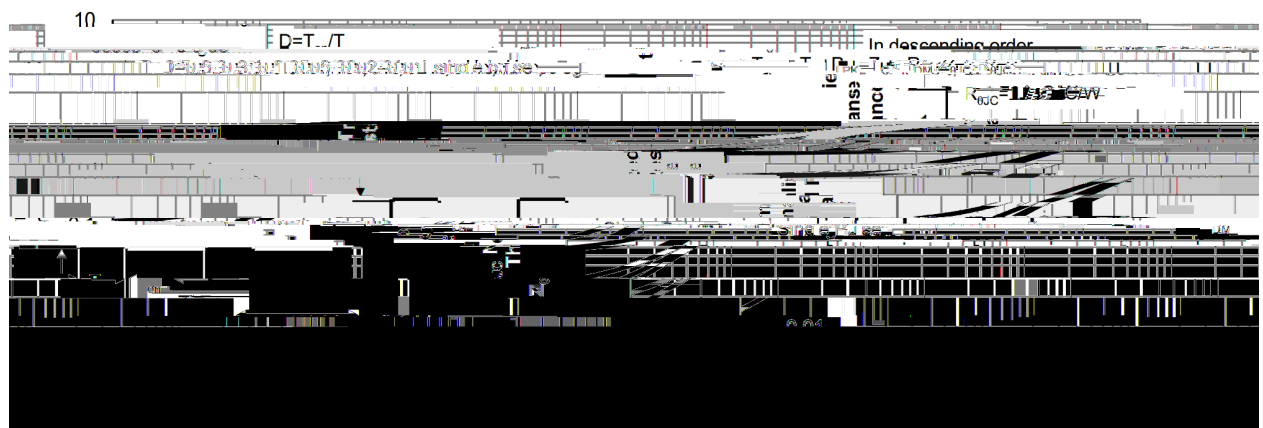
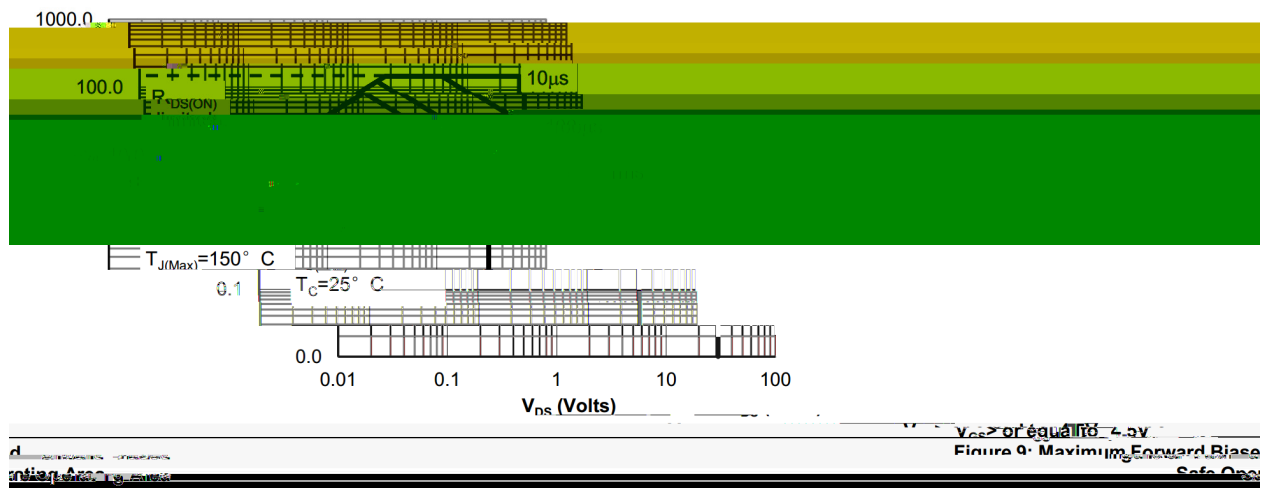
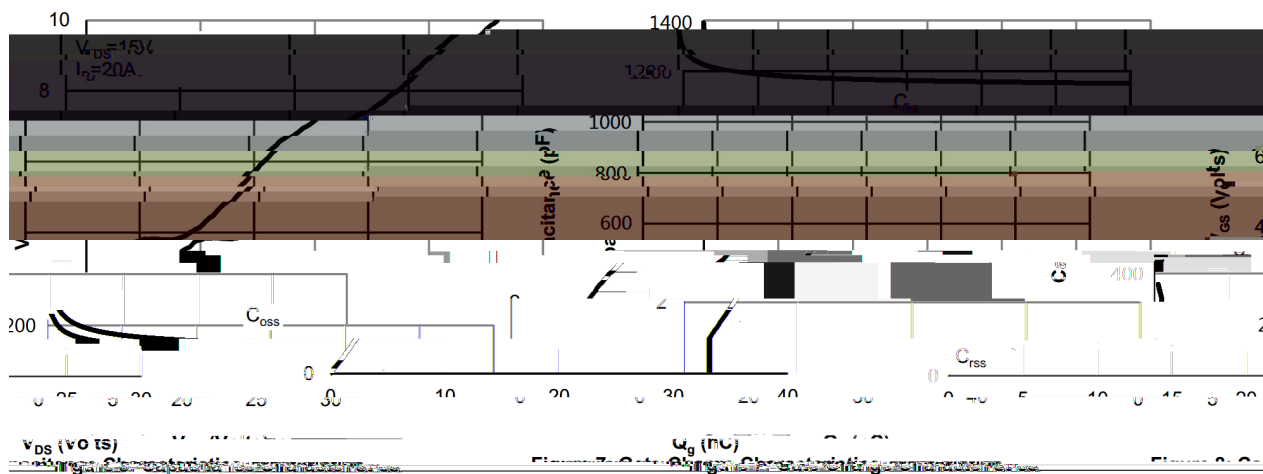
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	77	A
Drain Current - Pulsed	I_{DM}	165	A
Gate-Source Voltage	V_{GS}	± 20	


/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=0.75\Omega$ $R_{GEN}=3\Omega$		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



Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

BR
070N03

^a ¢ y

BR y

, [W A

070N03 y

° Z W A

y

ÿ D Z W A k Š ÿ D Z J

Note:

BR:

Company Code

070N03:

Product Type Code

****:

Lot No. Code, code change with Lot No

ŠWD t... •Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

^ačy

1o• Ä½ “† 150 ½180 - kž • 60 ½90sec;

2o• Q> “† 245 r5 - kž • 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 -