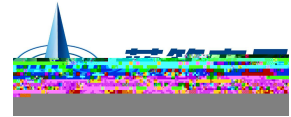


**/ Revised record**

版本	修订日期	有修订的页码	修订涉及的内容	拟制	审核
			参照 与 制作本 厂规格书	庞隆基	陈逸晞

# BRCS080N10SHDP

Rev.A Jul.-2022



DATA SHEET

## / Descriptions

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

## / Features

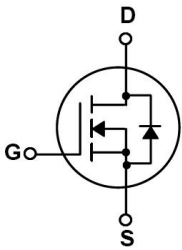
$R_{DS(on)}$              $C_{rss}$   
Low  $R_{DS(on)}$ , low gate charge, low  $C_{rss}$ , fast switching, HF Product.

## / Applications

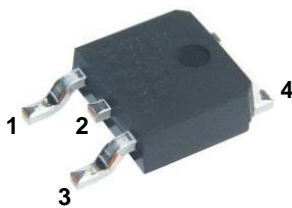
DC/DC

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.

## / Equivalent Circuit



## / Pinning



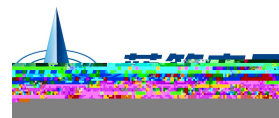
PIN 1 G            PIN 2 D            PIN 3 S            PIN 4 D

## / Marking

See Marking Instructions.

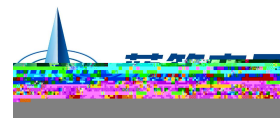
# BRCs080N10SHDP

Rev.A Jul.-2022



DATA SHEET

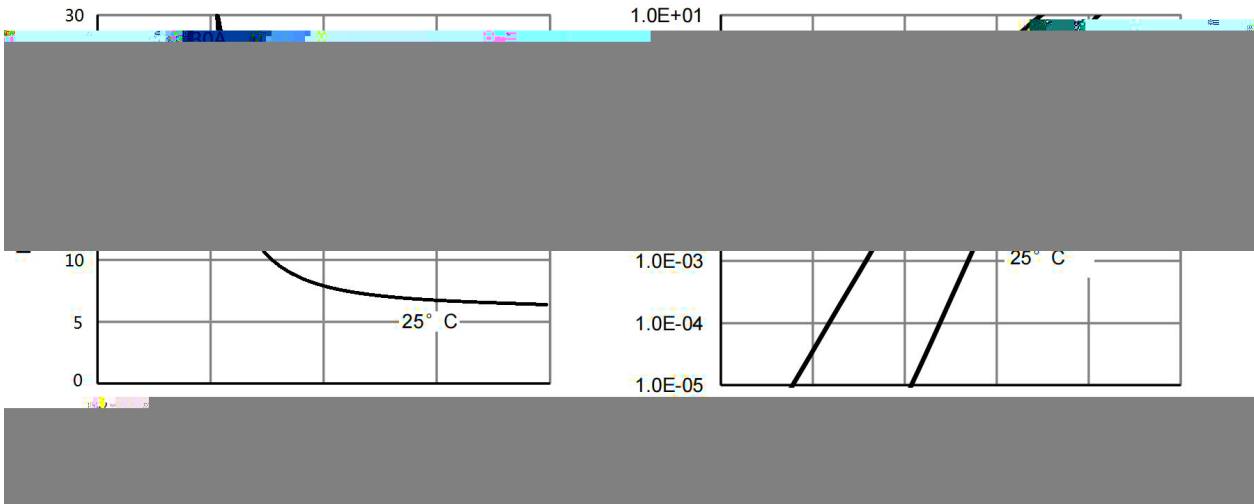
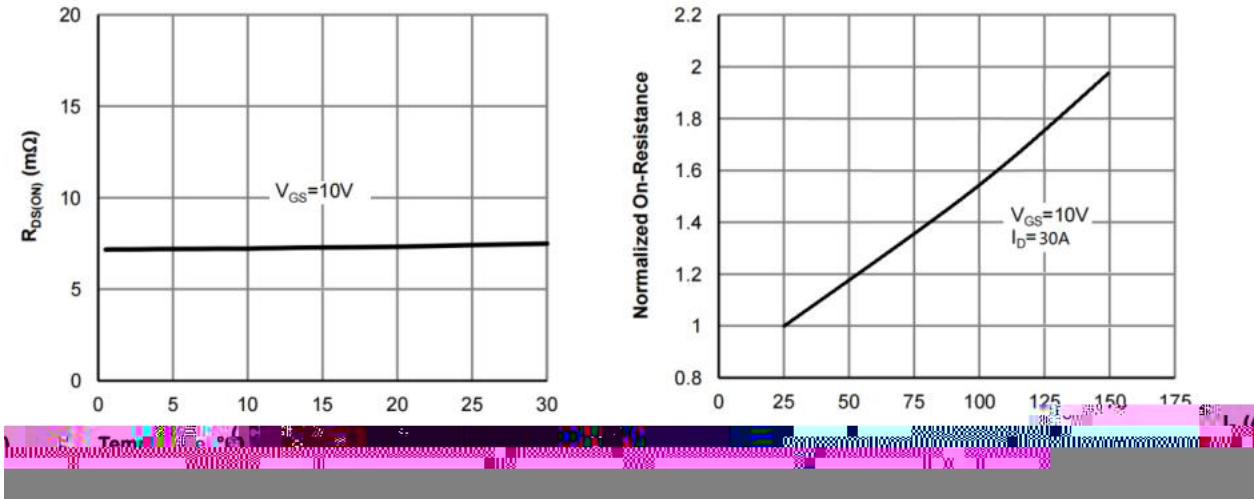
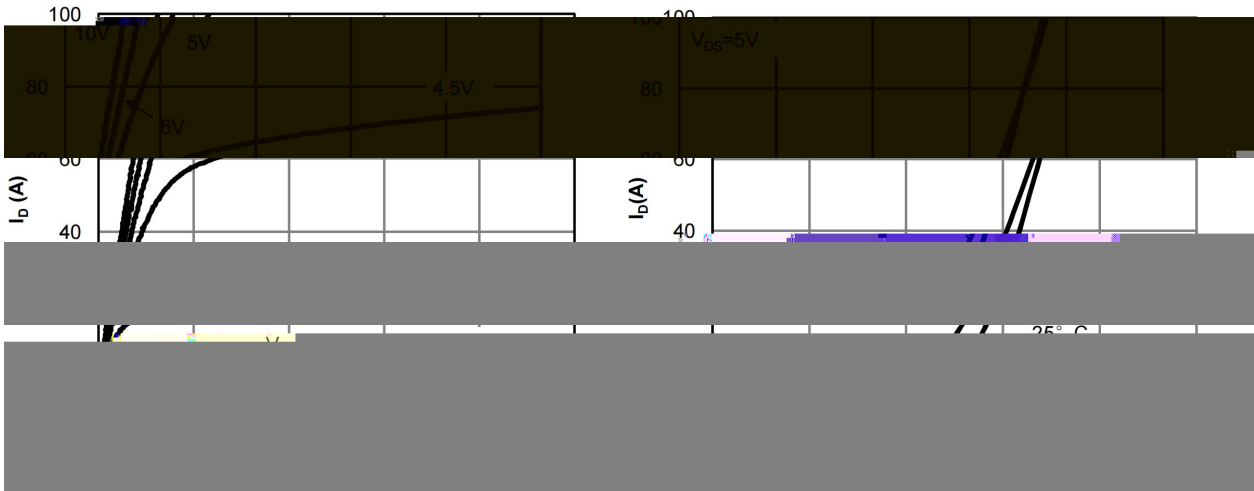
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	$V_{DS}$	100	V
Drain Current - Continuous	$I_D$	68	A
Drain Current – Pulsed	$I_{DM}$	156	A



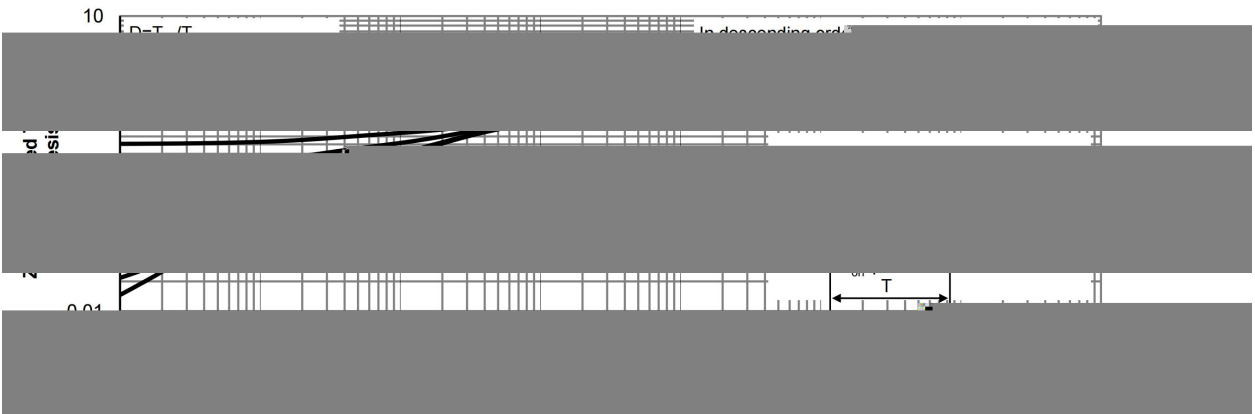
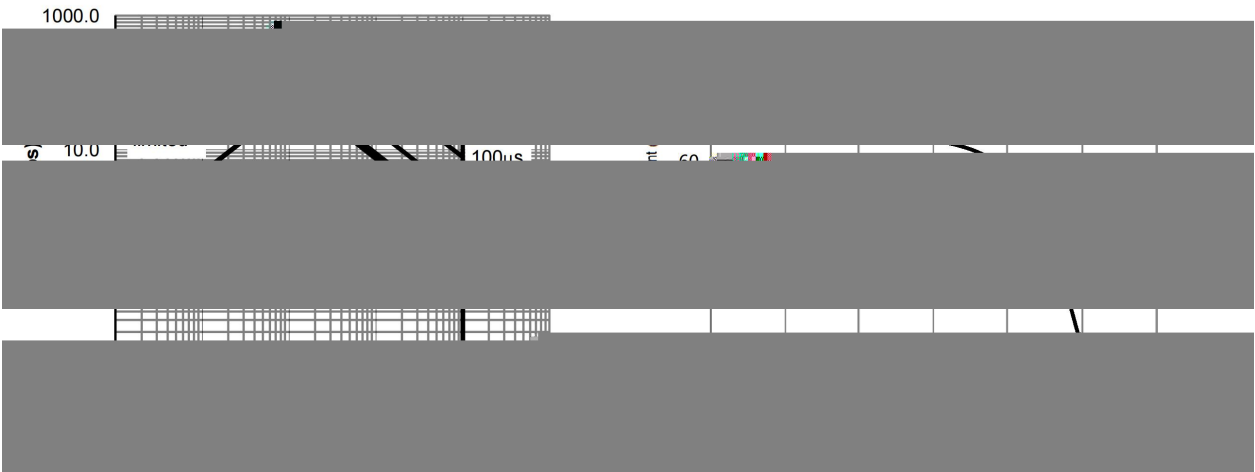
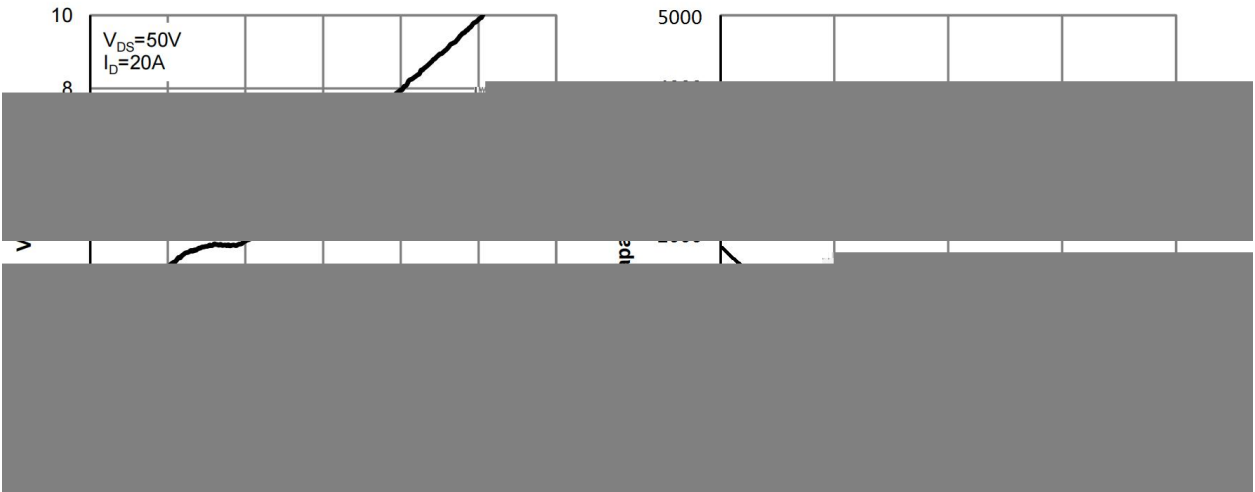
## / Electrical Characteristics(Ta=25 )

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3$		8.5		ns
Turn-On Rise Time	$t_r$			3		
Turn-Off Delay Time	$t_{d(off)}$			23		
Turn-Off Fall Time	$t_f$			3.5		

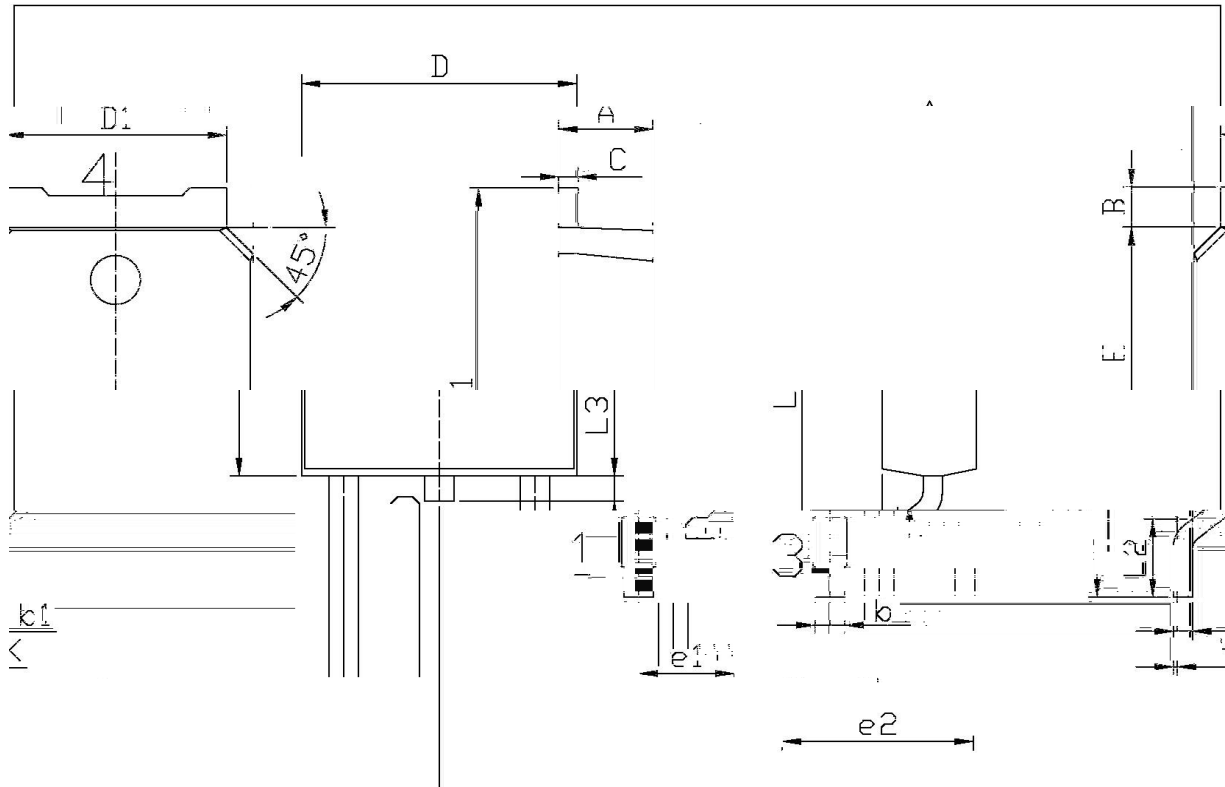
**/ Electrical Characteristic Curve**



**/ Electrical Characteristic Curve**



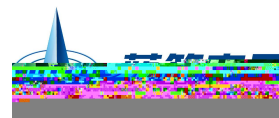
**/ Package Dimensions**



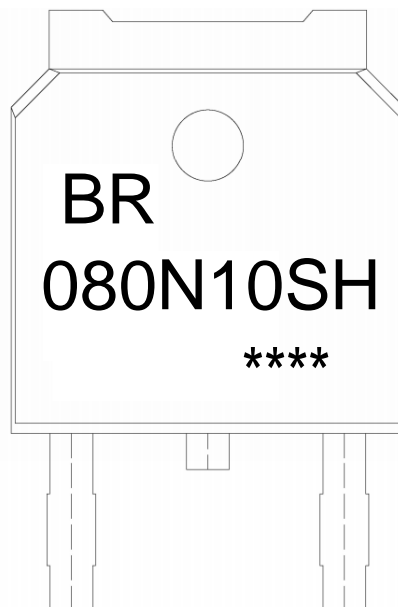
单位: mm

Dimensione		Dimensione In Millimetri		Dimensione In Millimetri		Symbol	
Min	Max	Min	Max	Min	Max	Min	Max
D	6.45	6.75	6.75	A	2.20	2.40	
e1	2.24	2.34	2.34	B	0.95	1.25	
e2	4.43	4.73	4.73	b	3.70	3.80	
L1	9.85	10.35	10.35	b1	0.45	0.55	
L2	0.55	1.70	2.00	C	0	0.45	
L3	0.60	0.90	0.90				
L4	0.30	0.30	0.30				

T0-252



## / Marking Instructions



说明：

BR： 为公司代码

080N10SH： 为型号代码

\*\*\*\*： 为生产批号代码，随生产批号变化

Note:

BR: Company Code

080N10SH: Product Type Code

\*\*\*\*: Lot No. Code, code change with Lot No

