

/ 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
A	2022.07.07	ALL	参照 AOS-AOD66923 与 BR-BRCS080N10SHZC 制作本 厂规格书	庞隆基	陈逸晞

/ Descriptions

TO-252 N

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

/ Features

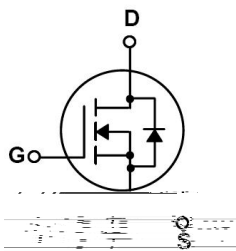
 $R_{DS(on)}$ C_{rss} Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

/ 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



PIN1 G

PIN 2 D

PIN 3 S

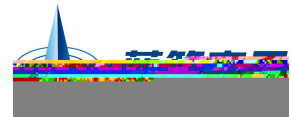
PIN 4 D

/ Marking

See Marking Instructions.

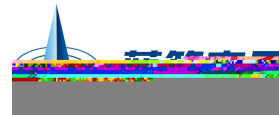
BRCS080N10SHDP

Rev.A Jul.-2022



DATA SHEET

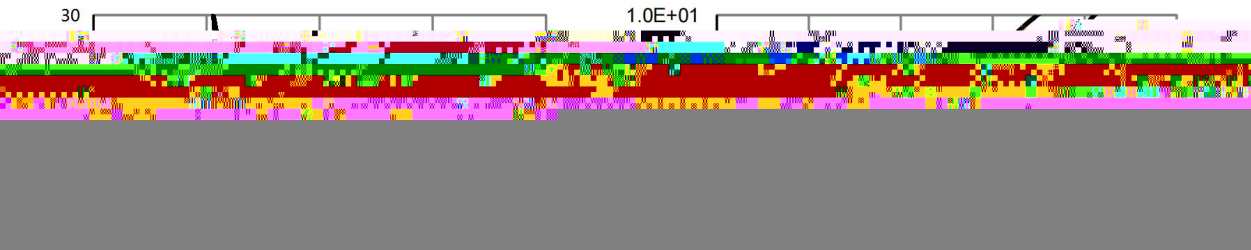
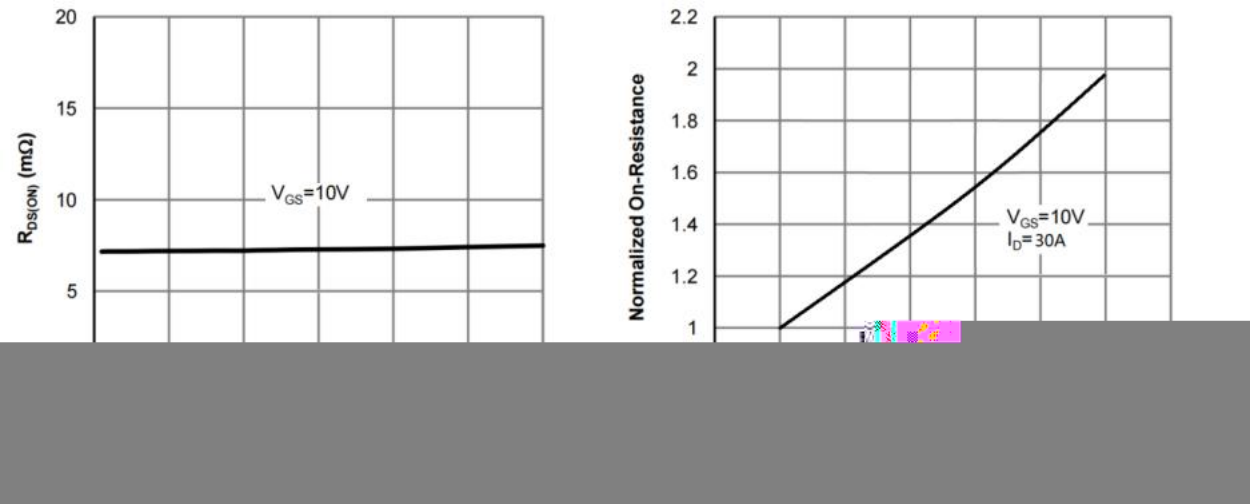
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	V_{DS}	100	V
Drain Current - Continuous	I_D	68	A
Drain Current – Pulsed	I_{DM}	156	A



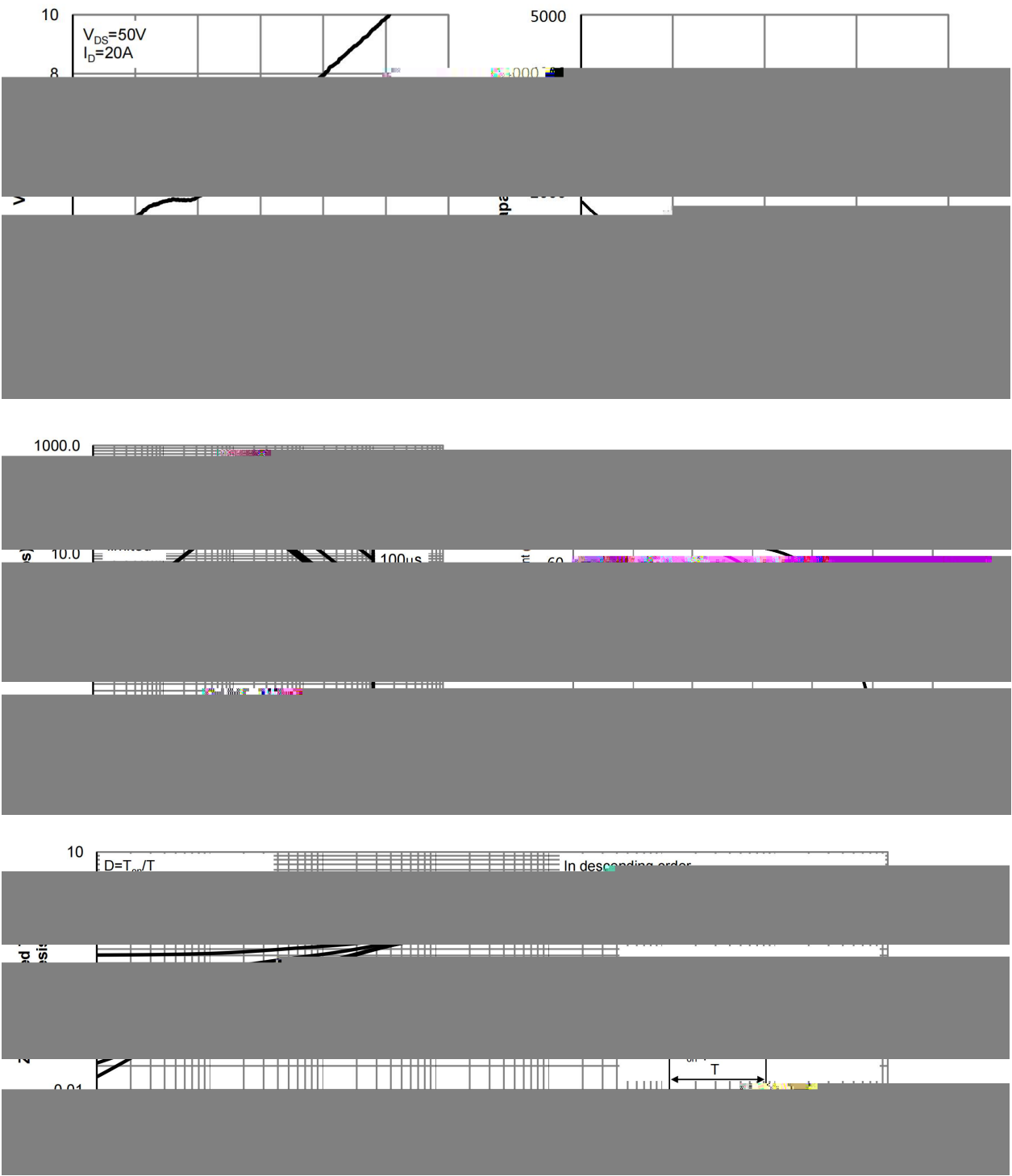
/ Electrical Characteristics(Ta=25)

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		

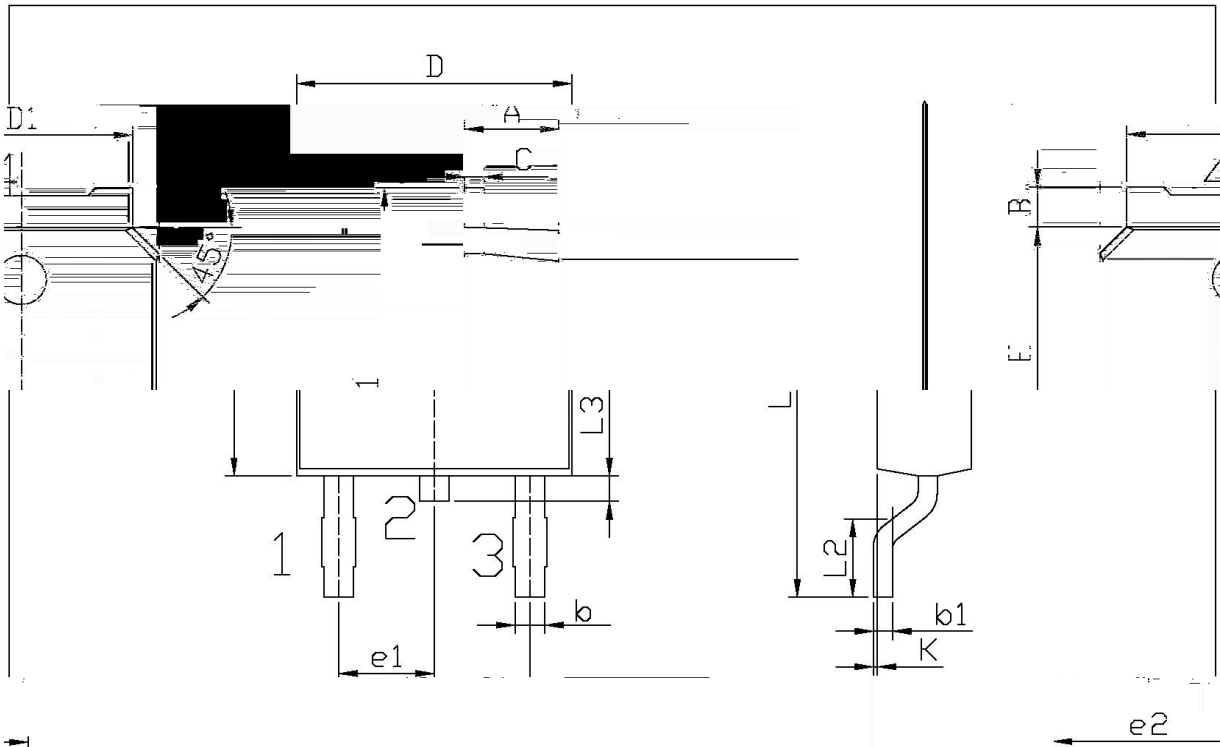
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions

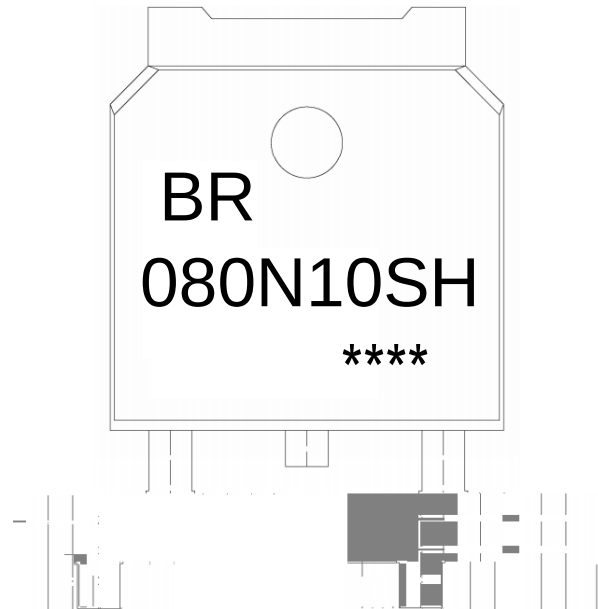


单位：mm

Symbol		Min	Max	Symbol		Min	Max	Symbol		Min	Max
A	2.34	2.50	B	4.45	C	0.45	0.55	D	6.45	L3	0.60
D1	5.10	5.50	e1	2.24	L2	1.70	2.00	K	0.00		
	0.90										
	0.10										

IN-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

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

说明：

1、预热温度 150 ~ 180℃，时间 60 ~ 90sec;

Note:

1.Preh