

/ 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

/ Descriptions

TO-252 N

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

/ Features

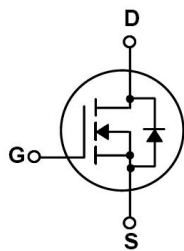
 $R_{DS(on)}$ C_{rss} Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

/ 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

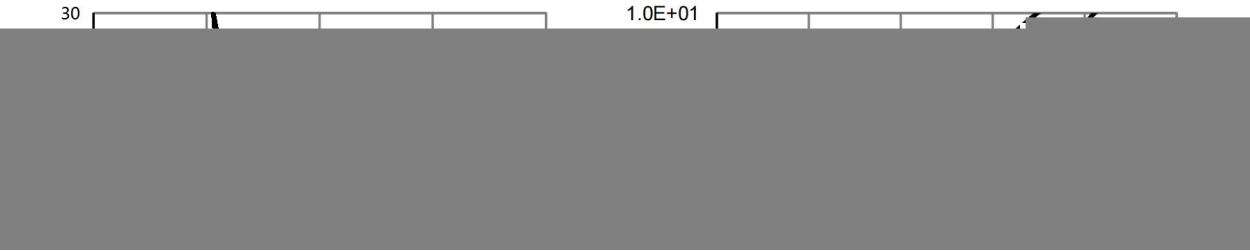
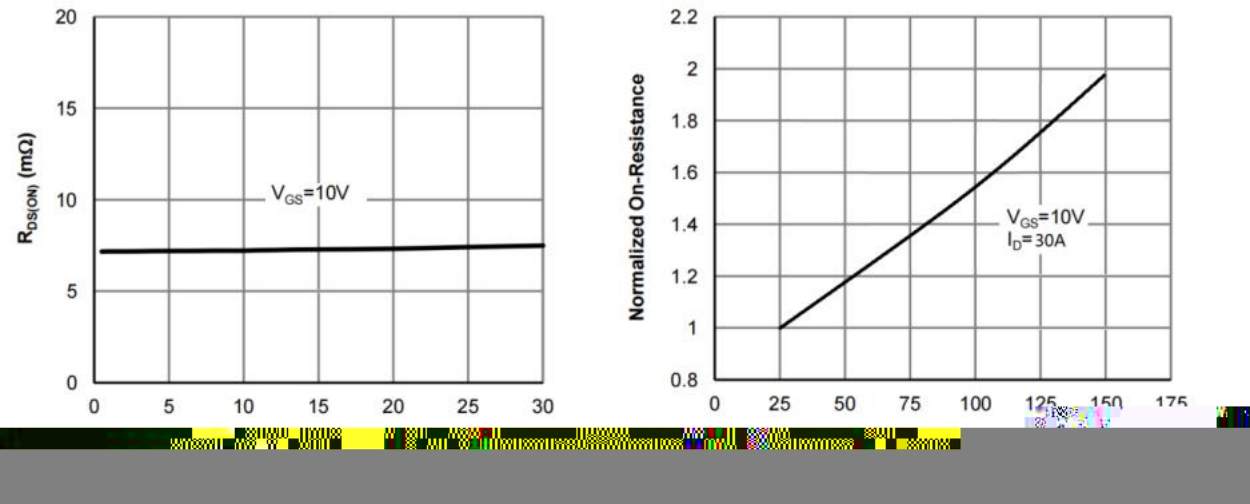
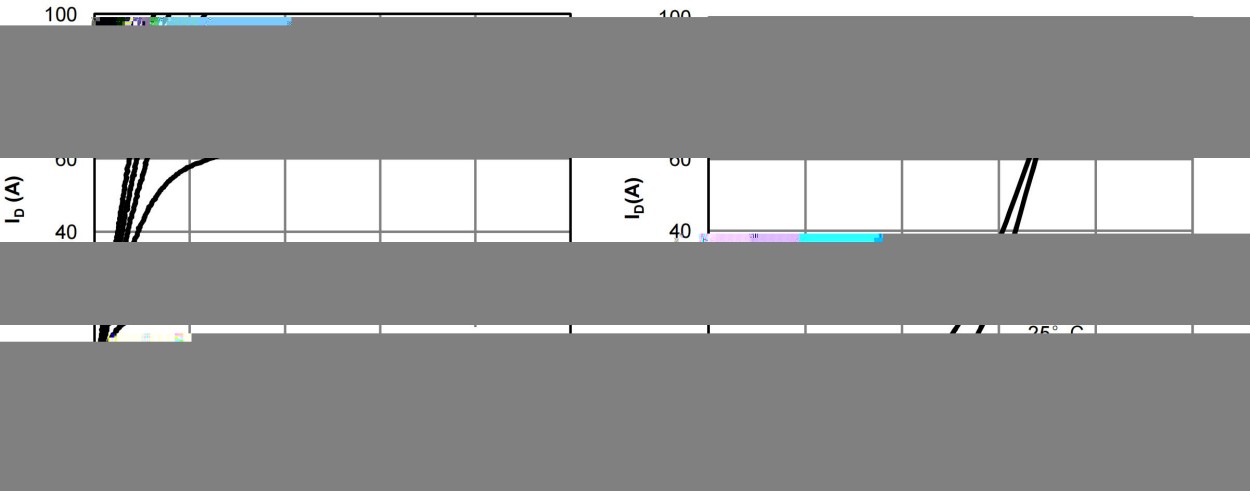


参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	V_{DS}	100	V
Drain Current - Continuous	I_D	68	A
Drain Current – Pulsed	I_{DM}	156	A

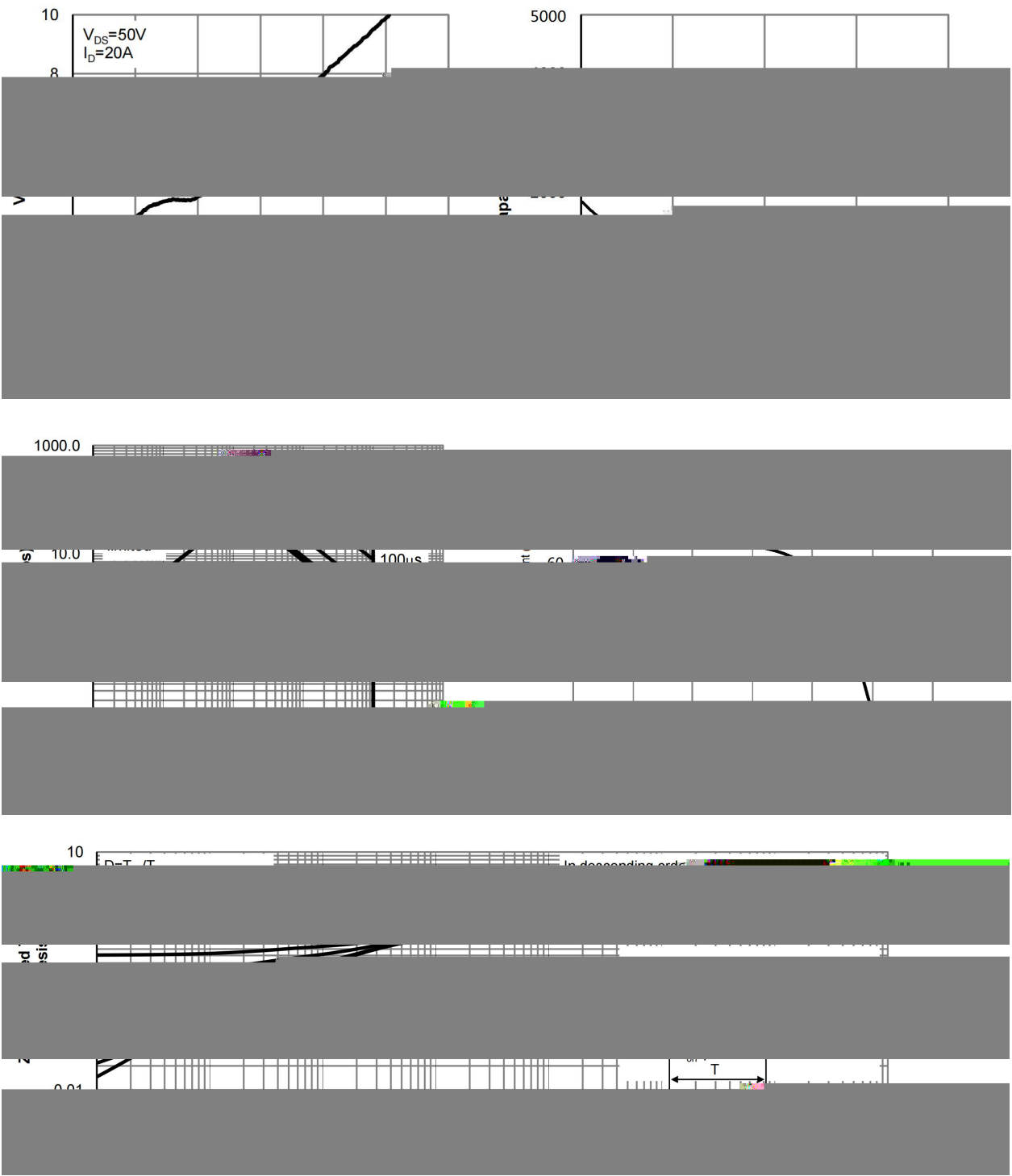
/ Electrical Characteristics(Ta=25)

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	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3\Omega$		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		

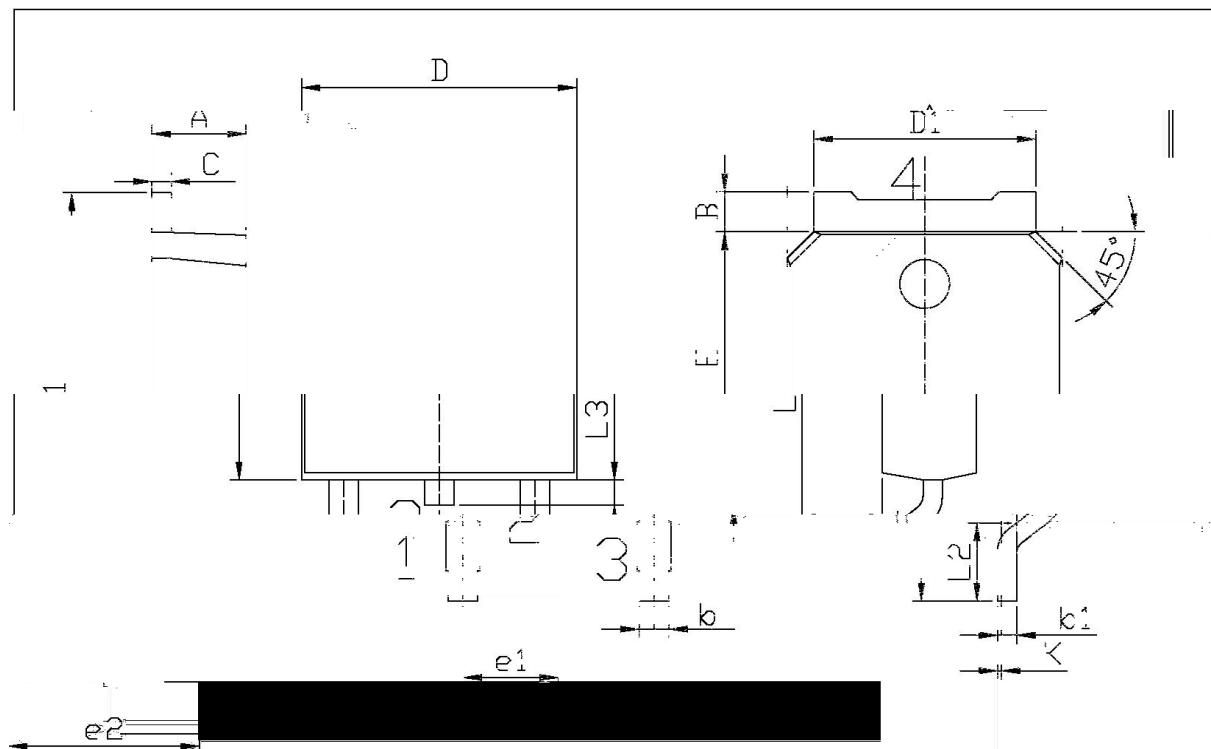
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions

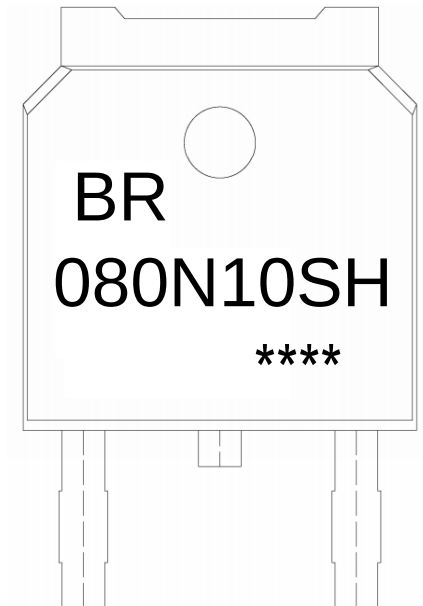


单位: mm

Symbol	Dimension	Symbol	Dimension	Symbol	Dimension
A	6.25	A	2.20	A	2.40
B	2.34	B	0.95	B	1.25
C	2.34	C	0.95	C	1.25
D	6.25	D	0.95	D	1.25
D1	6.25	D1	0.95	D1	1.25
E	6.25	E	0.95	E	1.25
L	6.25	L	0.95	L	1.25
L1	6.25	L1	0.95	L1	1.25
L2	6.25	L2	0.95	L2	1.25
L3	6.25	L3	0.95	L3	1.25
e1	6.25	e1	0.95	e1	1.25
e2	6.25	e2	0.95	e2	1.25
k1	6.25	k1	0.95	k1	1.25

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

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

Note:

1 150 180 60 90 sec () 11.323 (1.804E-790) -228.6 2 15.512 50.486 TD [()] TJ ET BT 10