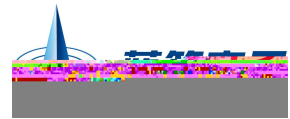


/ Revised record

A	2019-11-30	ALL	BRD20N03 TO-252 BRCS20N03IP TO-251		

BRCS20N03IP

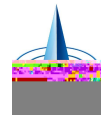
Rev.A Nov.-2019



DATA SHEET

BRCS20N03IP

Rev.A Nov.-2019



Parameter	Symbol	Rating
Drain-Source Voltage	V_{DS}	30
Drain Current	$I_D(T_c=25^{\circ}C)$	20
Gate-Source Voltage	V_{GS}	± 20
Avalanche Current	I_{AS}	10.4
Single Pulsed Avalanche Energy	E_{AS}	130

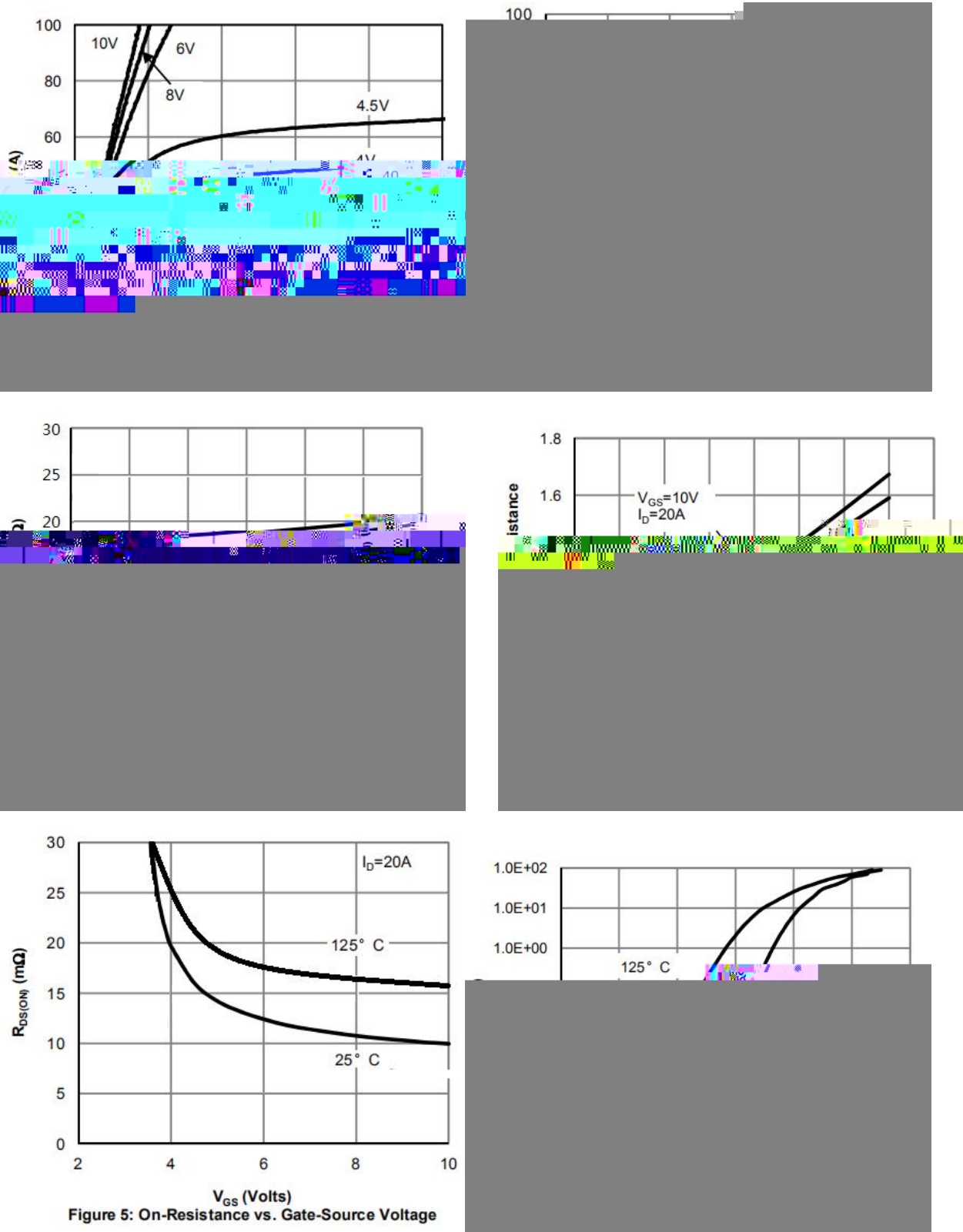
mJ

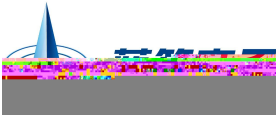


/ Electrical Characteristics(Ta=25)

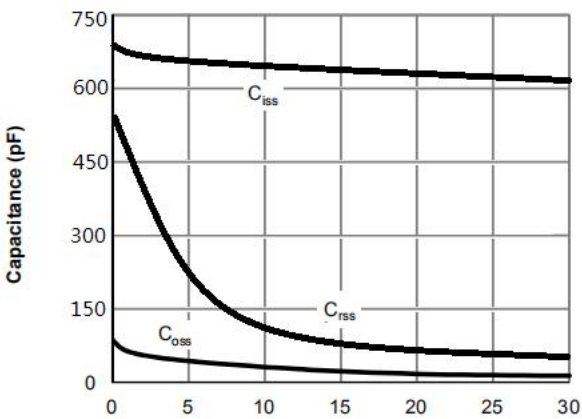
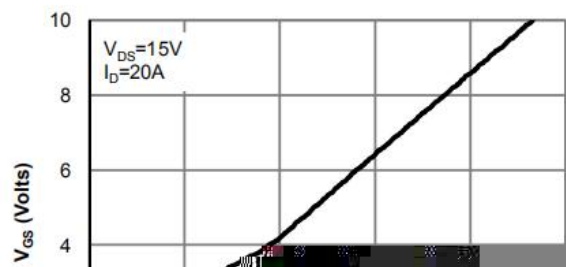
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(10V)}$	$V_{DS}=15V$ $V_{GS}=10V$ $I_D=20.0A$		14		nC
Total Gate Charge	$Q_{g(4.5V)}$			6.5		
Gate-Source Charge	Q_{gs}			3		
Gate-Drain Charge	Q_{gd}			2.5		

/ Electrical Characteristic Curve

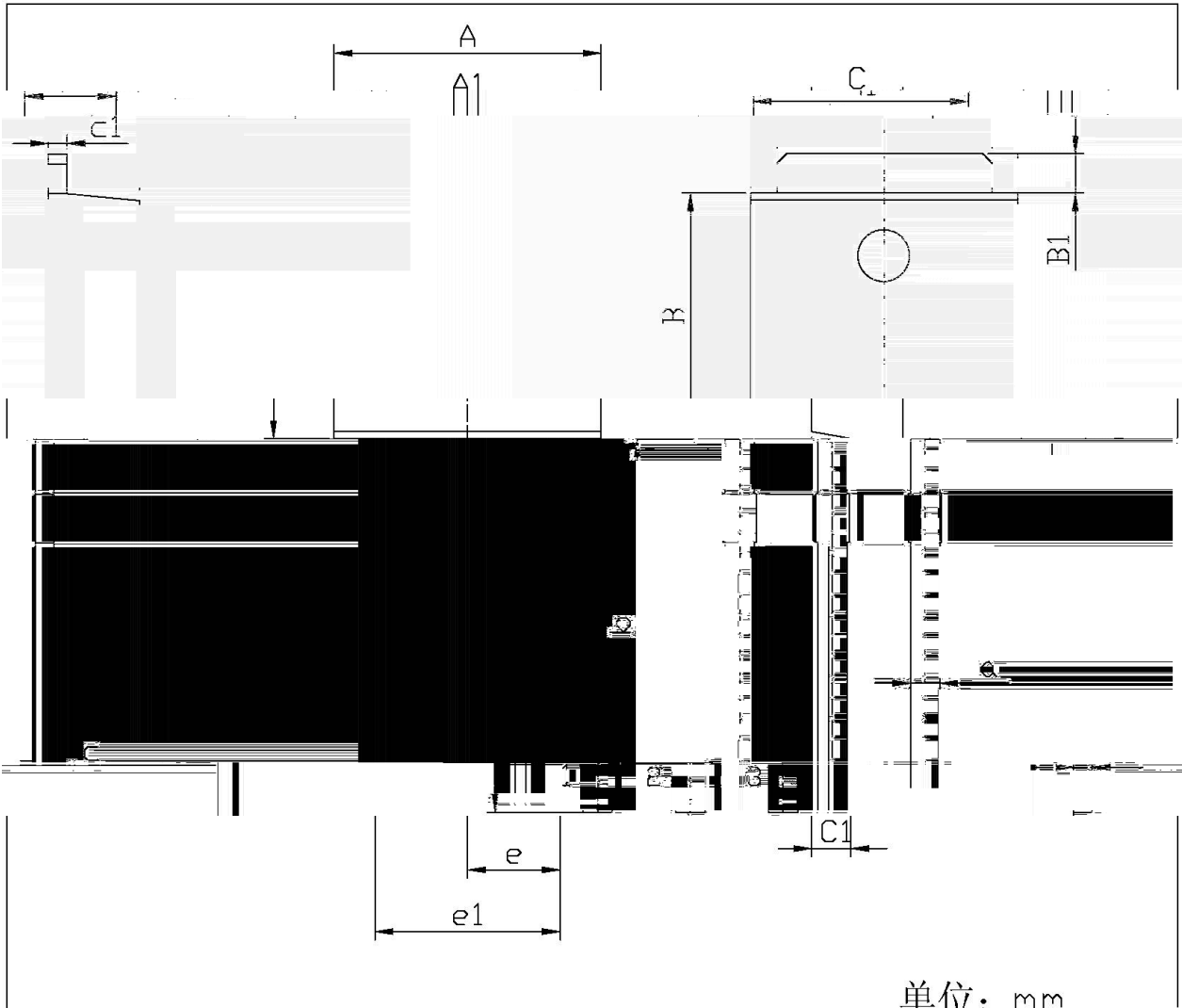




/ Electrical Characteristic Curve



/ Package Dimensions

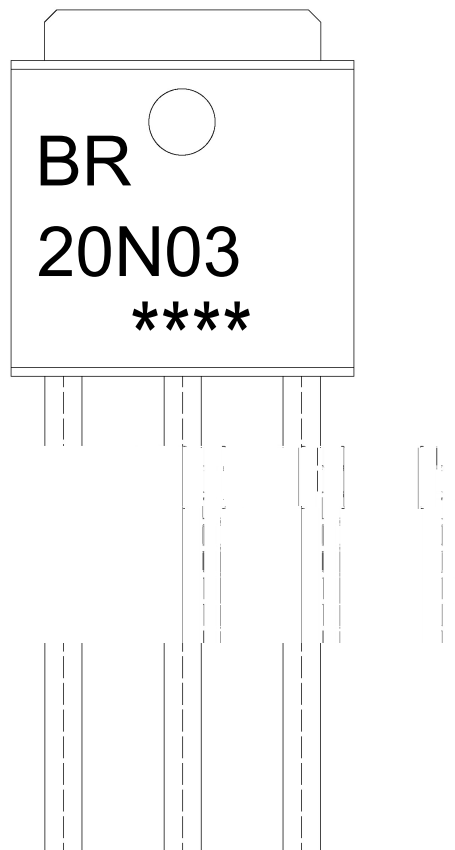


単位: mm

Dimensions In. Millimeters			Dimensions In. Millimeters		
Min	Max	Symbol	Min	Max	Symbol
6.45	6.75	a	0.50	0.70	A
5.30	5.50	b	9.00	9.40	A1
5.95	6.25	c	0.45	0.55	B
2.40	2.40	B1	0.95	1.25	c1
2.24	2.34	e	0.45	0.55	e1
4.43	4.73	e1	0.45	0.55	c1



/ Marking Instructions



BR

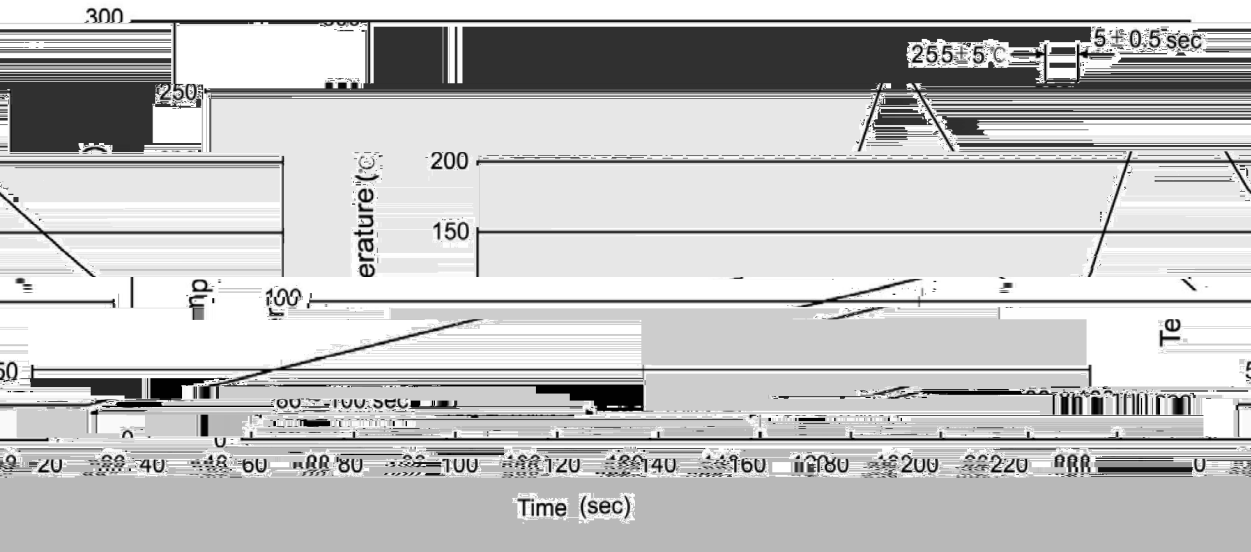
Note:

BR: Company Code

20N03: Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. | |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions