

BRCS020N04BD

Rev.B Sep.-2022

5 é / Descriptions

TO-263 .> // x N ?ú 3 « | • 'ož

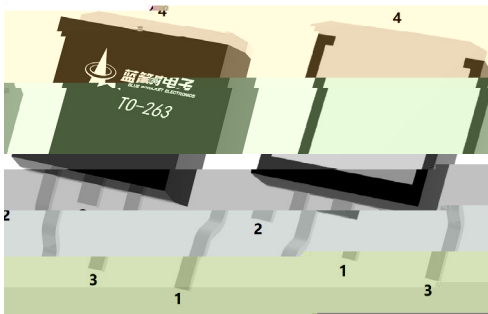
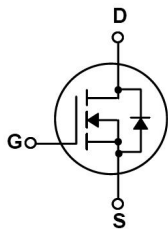
N-CHANNEL MOSFET in a TO-263 Plastic Package.

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; R Z X G 2 U] 5 T 8 K Y O Y Z G T I K . , L 6 X U J [Y] D Z I N O T M

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These devices are well suited for high efficient switched mode power supplies Ë Active power factor correction, electronic lamp ballast based on half bridge topology.



PIN1 y G

PIN 2o•4 y D

PIN 3 y S

, M V / Marking

• - ~ ^ ¢ ož See Marking Instructions.

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage	V _{DSS}	40	V
Drain Current	I _D (T _c =25)	120	A
Pulsed Drain Current	I _{DM}	480	A
Gate-Source Voltage	V _{GS}	-20	V
Single Pulsed Avalanche Energy L=0.5mH	E _{AS}	482	mJ
Avalanche Current	I _{AS}	35	A
Total Power Dissipation	P _D (T _c =25)	187	W
Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to 175	

Thermal Resistance-Junction
to Ambient

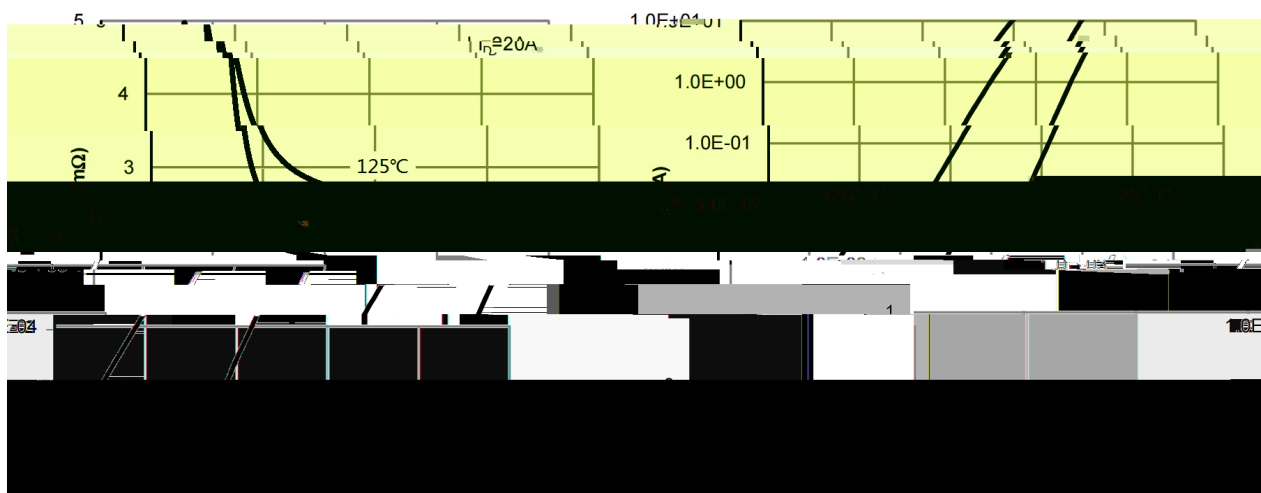
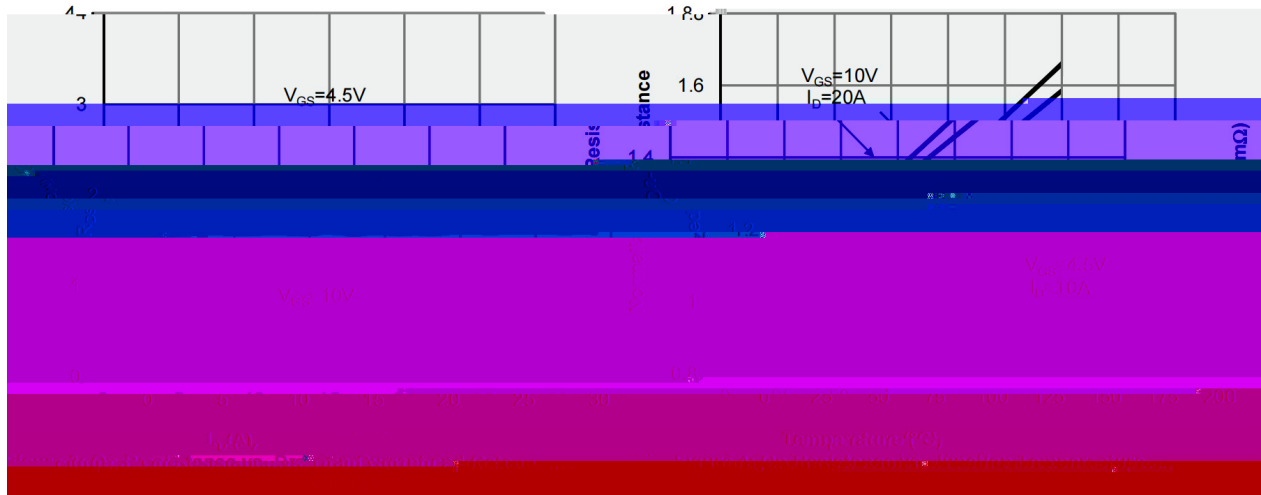
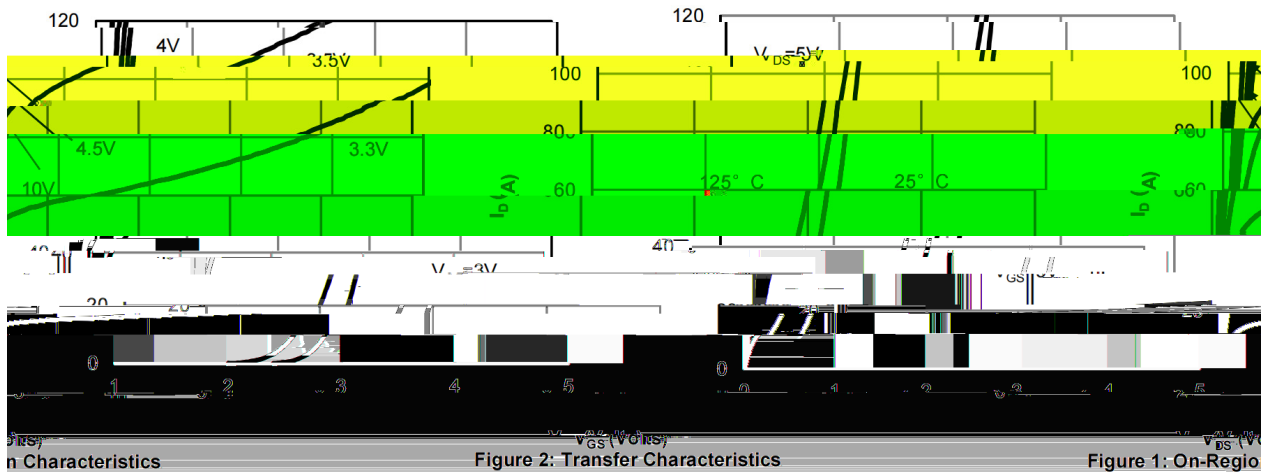
t 0 10s

f >
R_{θJA}

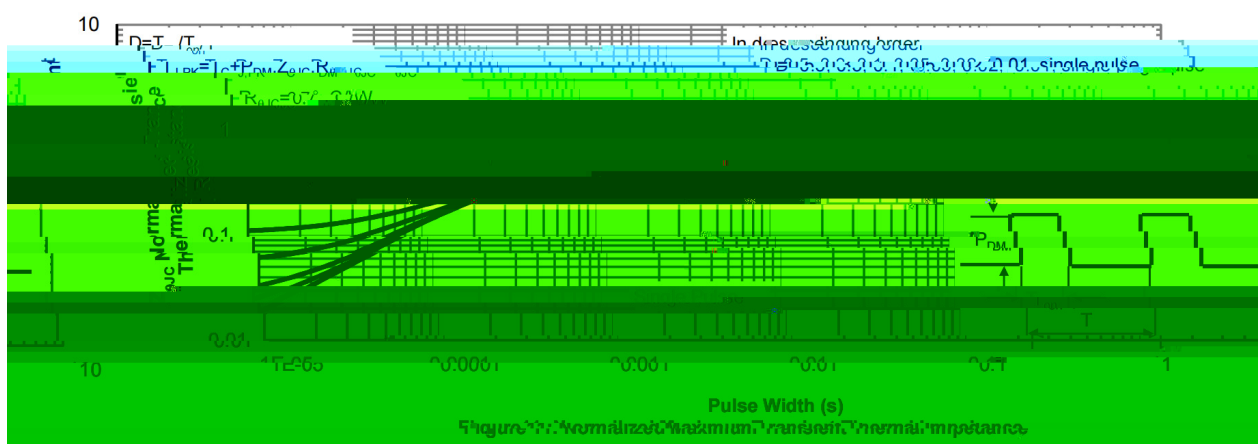
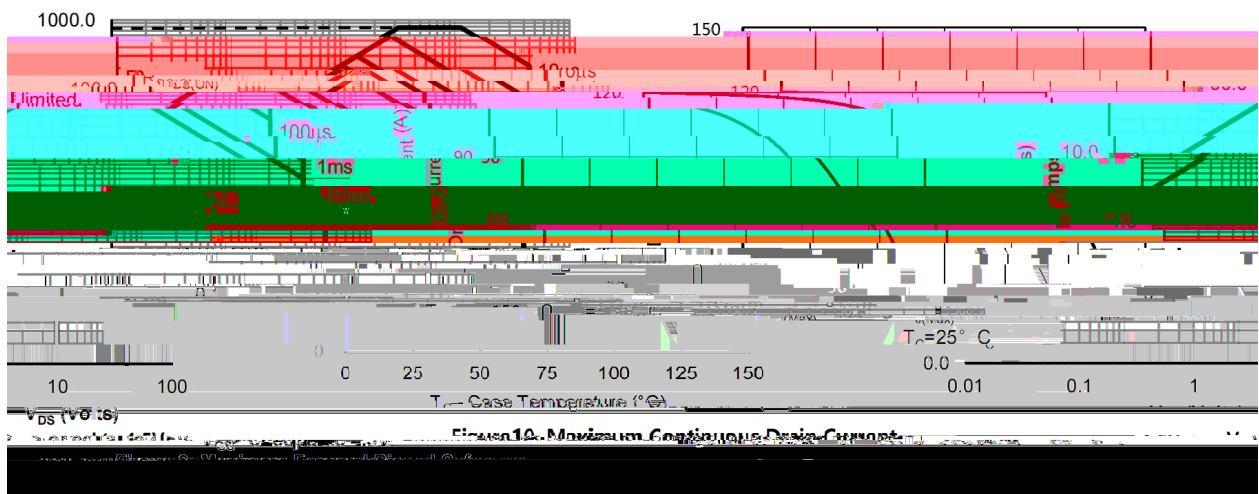
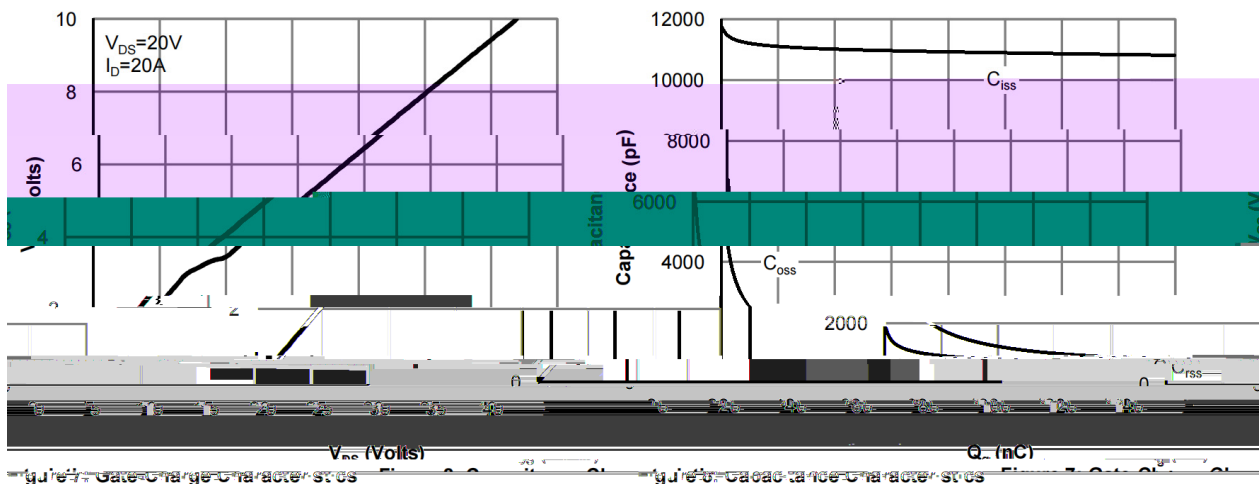
BRC-1.5943 TD .0004 Tc <04 Tc203 Tm .0011 Tc 13.0199 4854 ET 6 .48 18.4

@ f	... Z
Parameter	

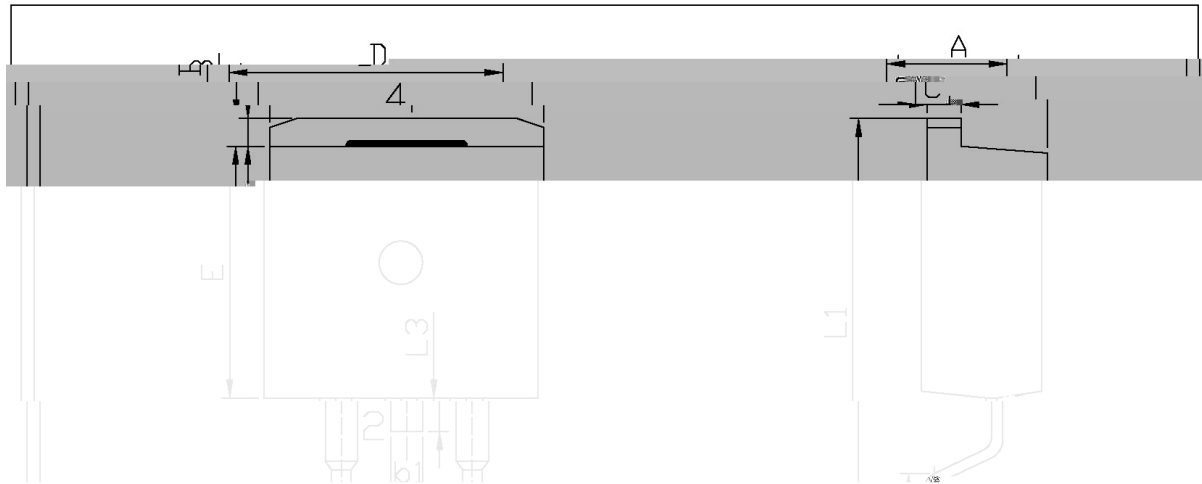
电 气 特 性 曲 线 / Electrical Characteristic Curve



Electrical Characteristic Curve



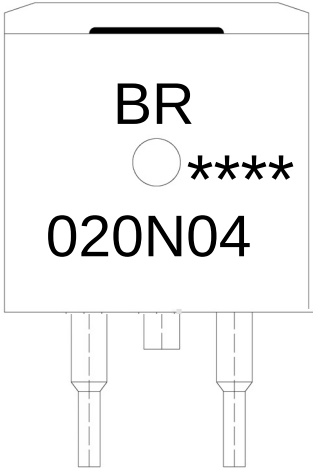
Ø α =) ¢ / Package Dimensions



	0.74	1	1.1	1.2	1.3	1.40	1.40 ₂	1.61	2.34
5.00	16.00				b1	1.15	1.35	L1	18
2.24	2.84				b2	0.94	0.90	L2	22
1.20	1.60				C	1.20	1.40	L3	1
					D	2.80	1.020		

— 25 —

, M y f / Marking Instructions



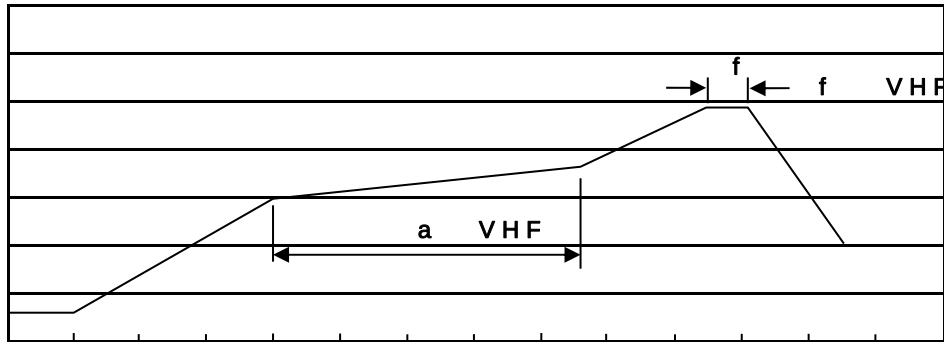
^ ¢ y
(8 y , [W A
4 y ° Z W A
y Ÿ D Z W A k š Ÿ D Z J

Note:
BR: Company Code
020N04: Product Type
****: Lot No. Code, code change with Lot No



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

7HPSHUDWXUH



7LPH VHF

a ç y

10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•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

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260~5

Time:10~1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /lç	Units/Outer Box /lç	Reel	Inner Box	Outer Boxç
TO-263	800	1	800	6	4,800	13 s ×24	360×360×50	380×335×66

ì' x / TUBE

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Tube /•1×	Tubes/Inner Box •1× /-	Units/Inner Box /-	Inner Boxes/Outer Box - /lç	Units/Outer Box /lç	Tube•1×	Inner Box	Outer Boxç
TO-263	50	20	1,000	5	5,000	532×83×7.0	555×164×50	575×290×180

„Đ y f / Notices