

BRCS020N04BD

Rev.B Sep.-2022

5 Ø / Descriptions

TO-263 .> // x N ?æ 3 « | o

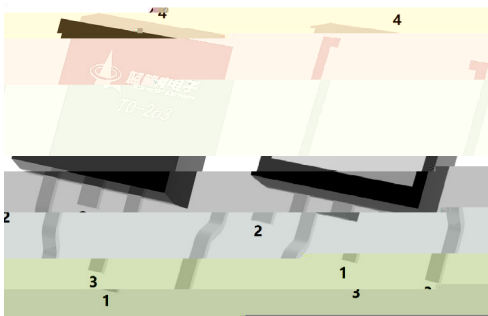
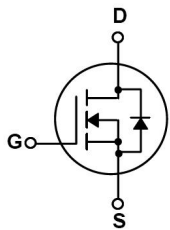
N-CHANNEL MOSFET in a TO-263 Plastic Package.

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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 " 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

- ~ " ¢o See Marking Instructions.

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@ Parameter	Z Symbol	Rating	% y Unit
Drain-Source Voltage	V_{DSS}	40	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	120	A
Pulsed Drain Current	I_{DM}	480	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy $L=0.5\text{mH}$	E_{AS}	482	mJ
Avalanche Current	I_{AS}	35	A
Total Power Dissipation	$P_D(T_C=25^\circ\text{C})$	187	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 175	
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	15	$^\circ\text{C/W}$

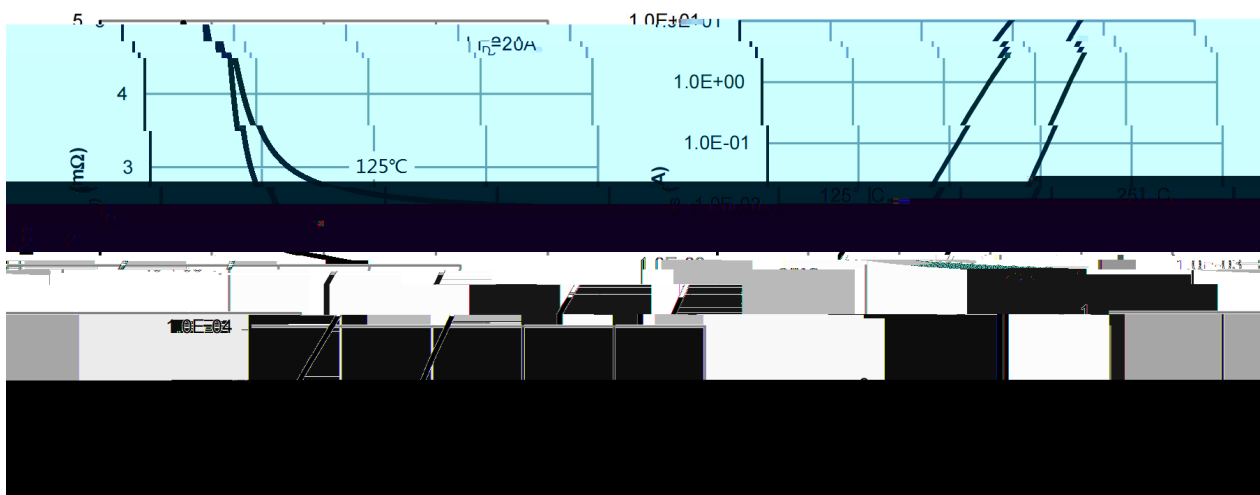
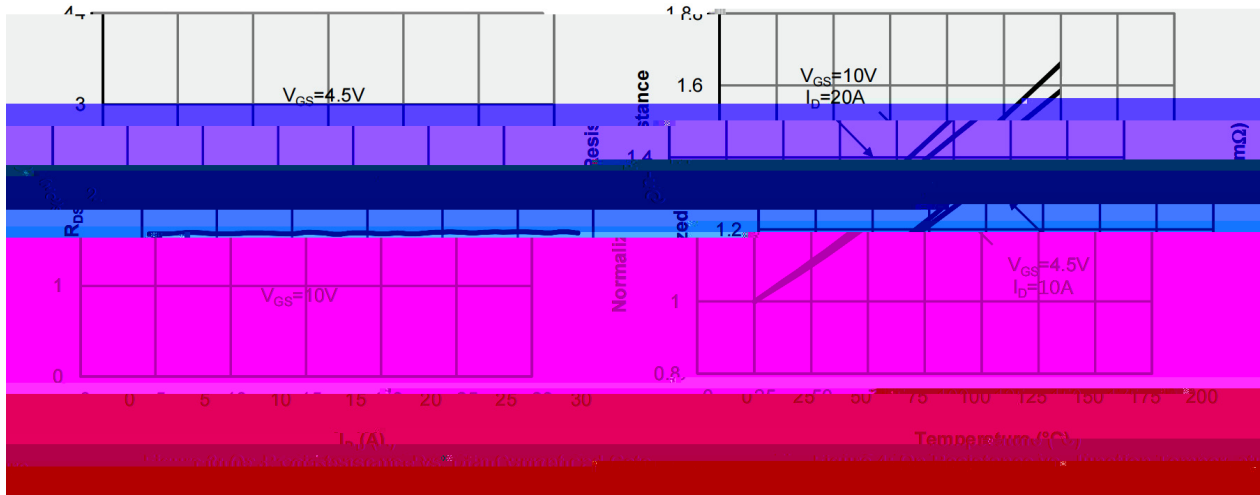
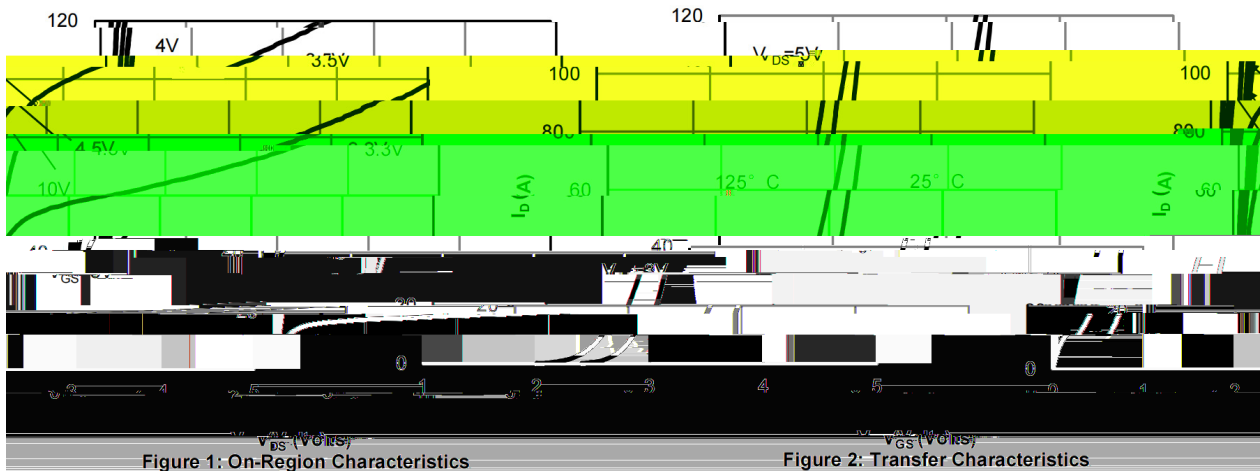
t 0 10s

Steady-State
to Ambient

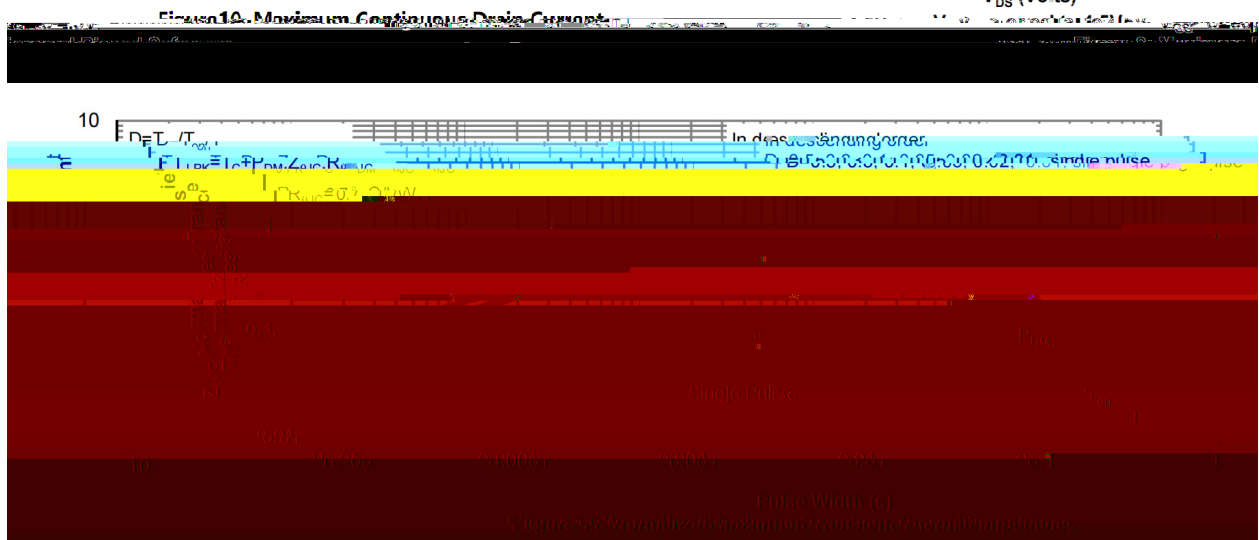
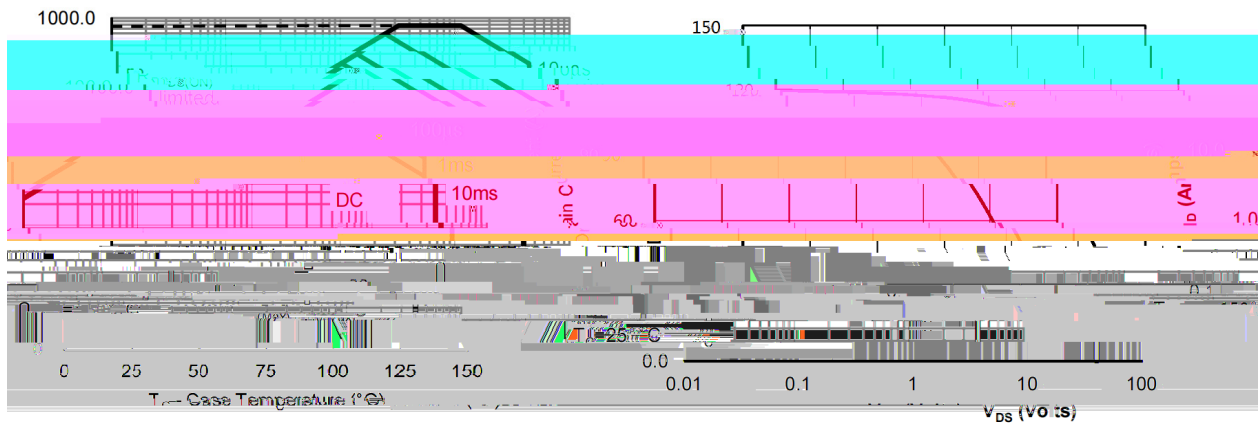
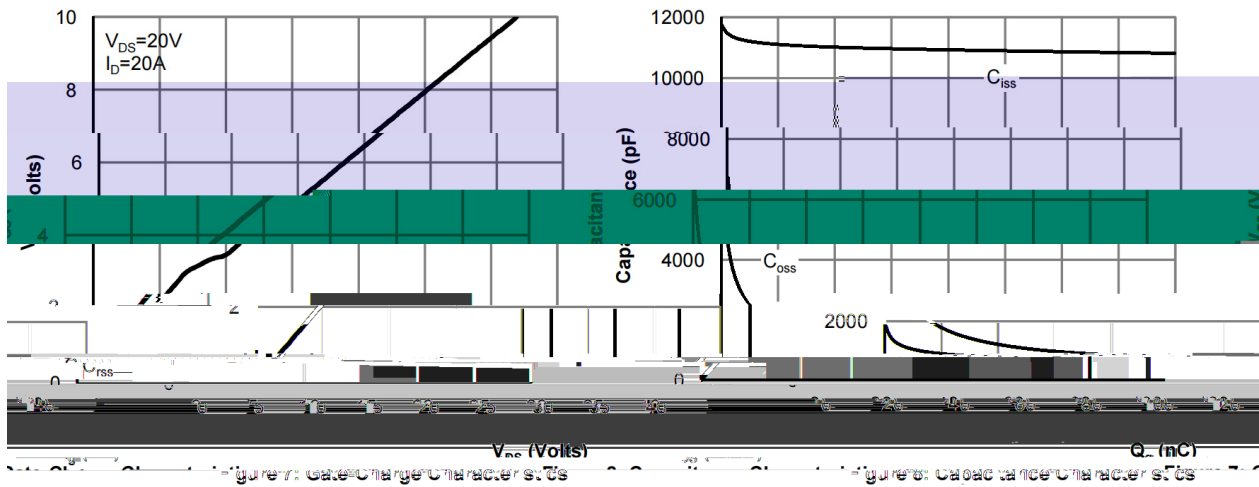
reference 536.46/W

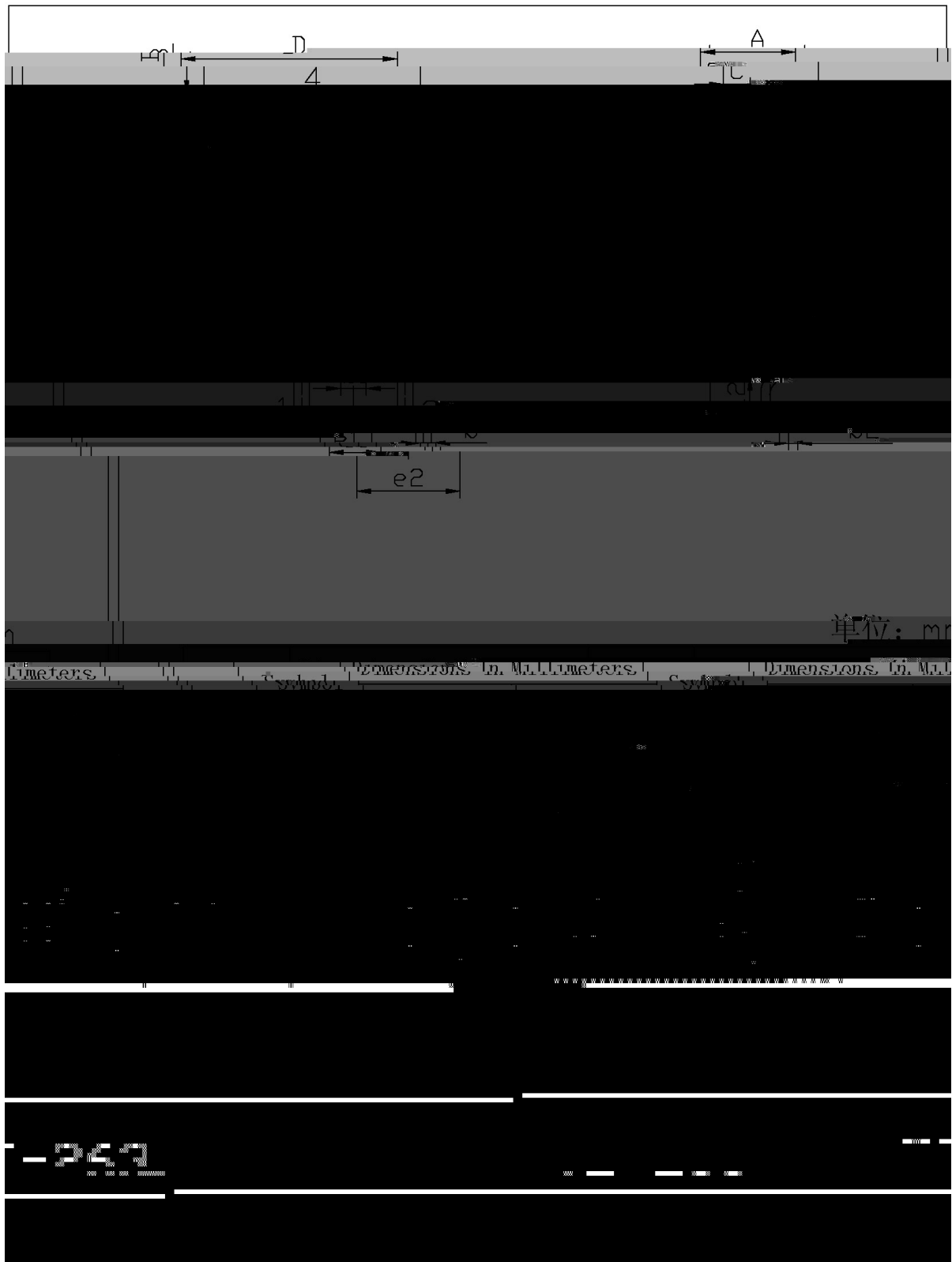
@	Z
Parameter	

Electrical Characteristic Curve

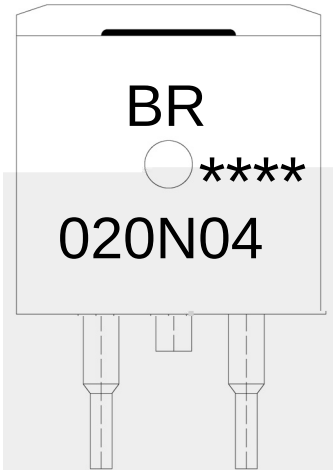


Electrical Characteristic Curve



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, M y É / Marking Instructions



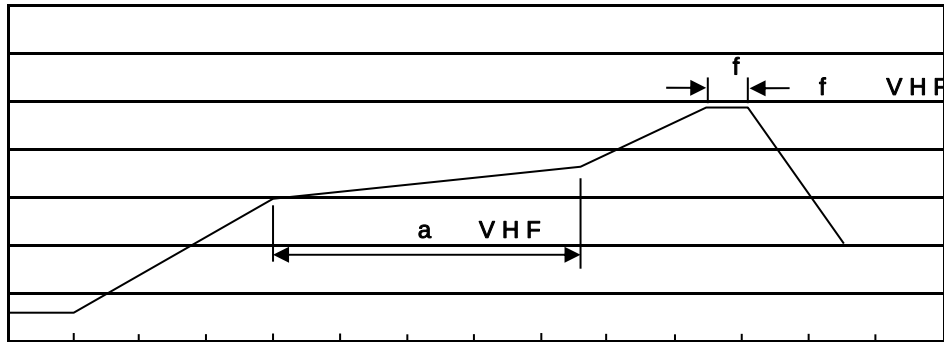
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(8 y , [W A
4 y ” Z W A
y ~ D Z W A k ö D Z J

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



WD t ¢ (x /) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

“ ¢ y

10 ~ % 150 ~ 180 - k 60 ~ 90sec;

20 Q 245 r5 - k 4 0 5 r0.5sec;

30 D N ò i 0 , 2 % 10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

‘D /C^a p fl »] / Resistance to Soldering Heat Test Conditions

y 260 r5 -

y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P Æ / Packaging SPEC.

2 & x / REEL

Package Type 7>ß E	Units ;>ß fH					Dimension ;>ß p . (unit ~ mm ³)		
	Units/Reel / >-	Reels/Inner Box x- /-	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	380 335 366

ì x / TUBE

Package Type 7>ß E	Units ;>ß fH					Dimension ;>ß p . (unit ~ mm ³)		
	Units/Tube / 1x	Tubes/Inner Box 1x /-	Units/Inner Box /-	Inner Boxes/Outer Box - /lç	Units/Outer Box /lç	Tube 1x	Inner Box	Outer Boxç
TO-263	50	20	1,000	5	5,000	532 33 7.0	555 164 50	575 290 180

— y / Notices