BRCS200N20SHRA

DATA SHEET

5 Ø / Descriptions

.> / / x N ?œ 3 « | o

/ “ / Features

VDS ()V= 200V I D =67A (VGS = f 20)V

8*9 54& < S S : _ V S S

8*9 54& < S S : _ V S S

)í D }o HF

— ÷ / Applications

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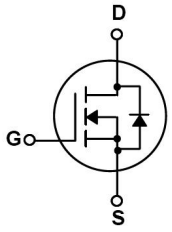
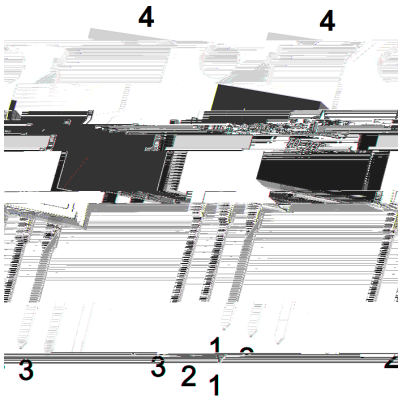
DC - DC C





y G y D y S

, M V / Marking

- ~ “ ¢o

ˆ a ? d / Absolute Maximum Ratings(Ta=25 ;)

@	Z		% y
Die V	DS	200	V
DiaCu	ID(T25)	67	A
	ID(T100)	42	A
DiaCu *	IDM	175	A
Gta V	GS	f 20	V
A Eg (VDD=50 1.0)	EAS	685	
CuCu I	S	67	A
Da	PD(T25)	227	W
Jg T	J,Ts	-55 150	
Aen **	R JA	42	- /W
CuCa R	JC	0.55	

y
* 300 s 2 %
** 1 in 2 at 10

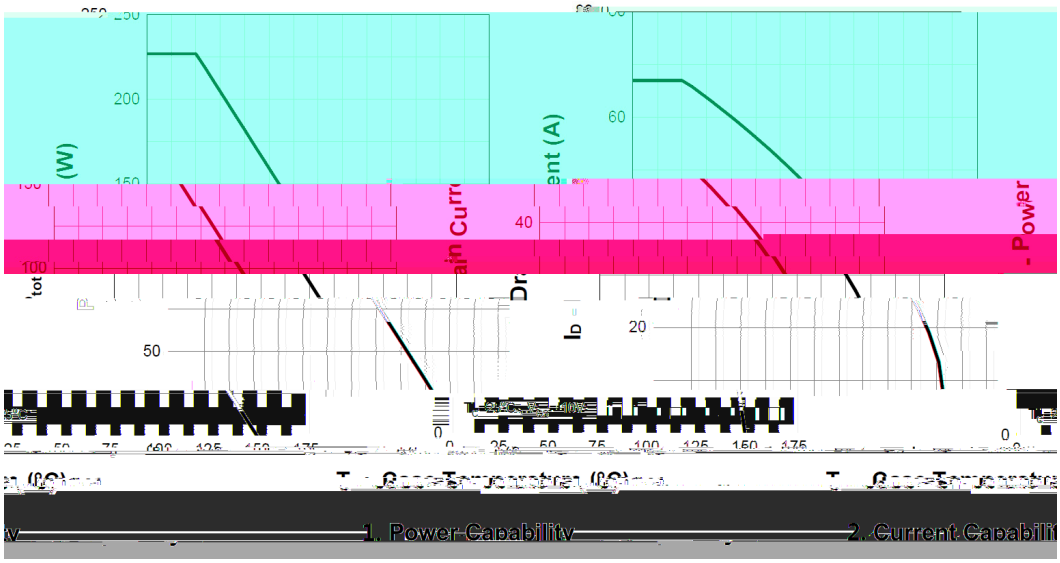
Âì ×? d / Electrical Characteristics(Ta=25 ;)

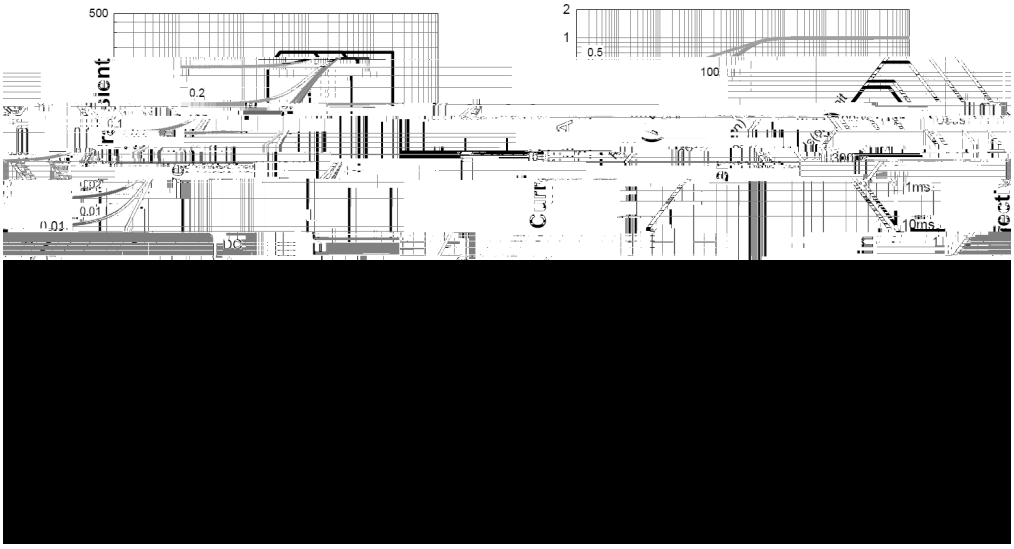
@	Z	y ¡ Ú^	´ 4 M	` " T	´ Ý M	% y
Die BV	DS	VGS=0V I D=250 A	200			V
Dig I	DS	VDS=160V V GS=0V			1	A
Gtg I	GS	VGS=20V V DS=0V			f 100	A
Gt V	Gh	VDS=VGS ID=250 A	2		4	V
S Die	RDn	VGS=10V I D=30A		17	20	m
	RDn	VGS=6V I D=20A		19	22	m
Fd V	s	VGS=0V I S=30A			1.3	V
t	r	IDS = 30 A, VGS = 0 V dI s /t= 100 A/ s		118		s
Q	r			441		C
C	is	VDS=100V V GS=0V f=1MHz		3517		p
C	os			200		p
C	rs			30		p
Q	g	VDS=100V V GS=10V ID=30A		59		C
Q	g			20		C
Q	g			14		C

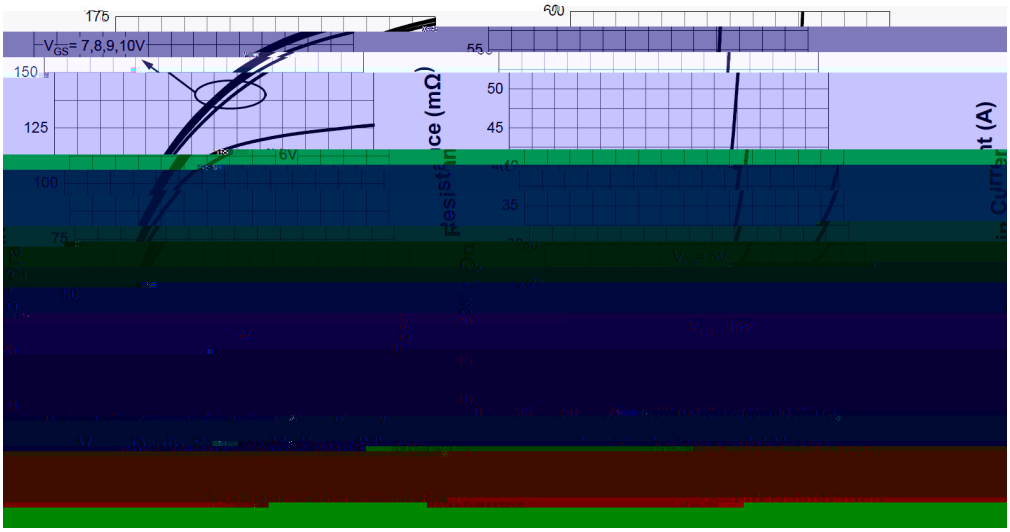
Electrical Characteristics(Ta=25 ;)

t		V_{GEN}=10V V_{DS}=100V R_L=3.3 R_G=3.9 I_{DS}=30A		16		
t	r			82		
t				38		
t	f			86		

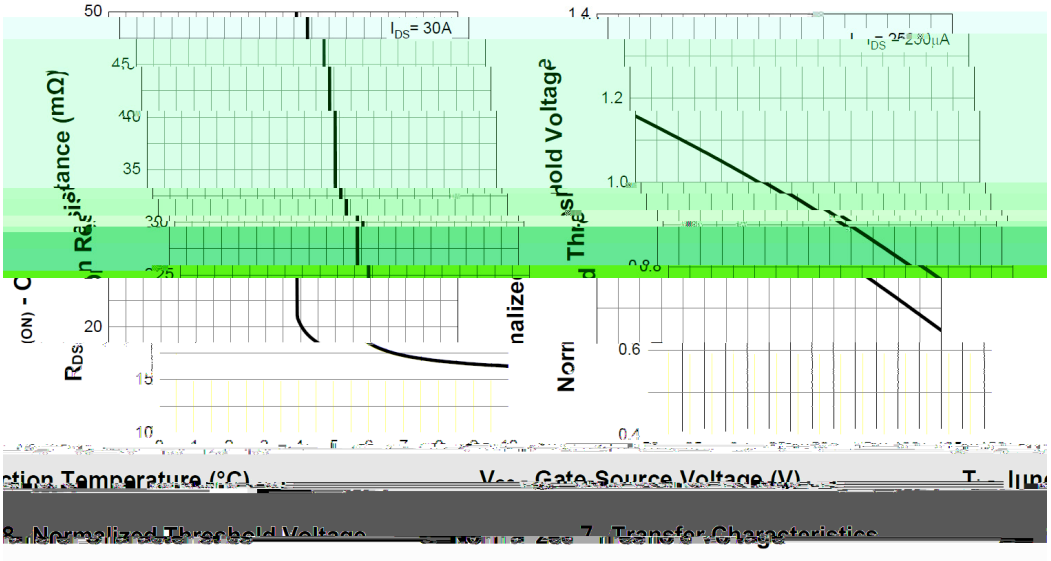
Ô? d ¢ / Electrical Characteristic Curve

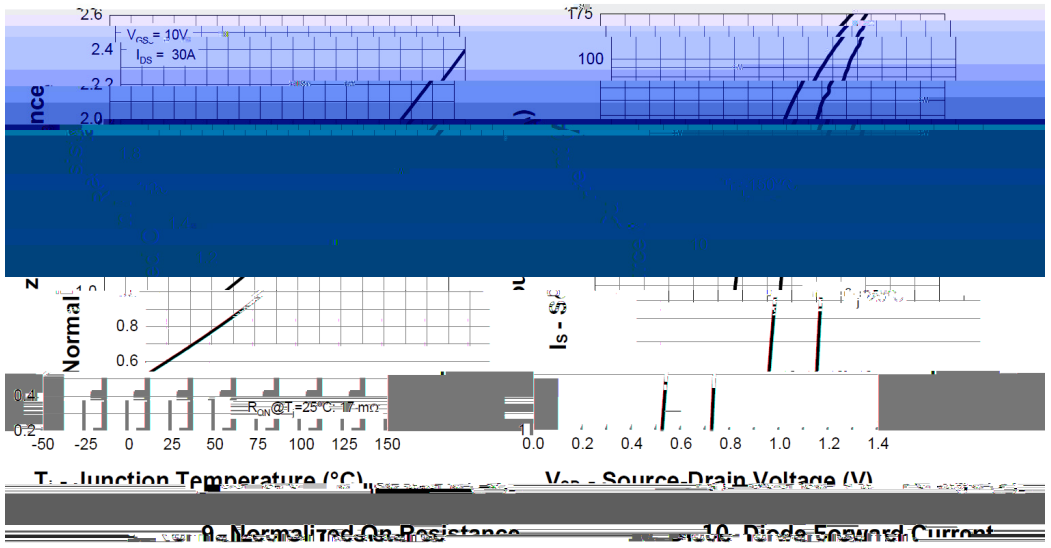


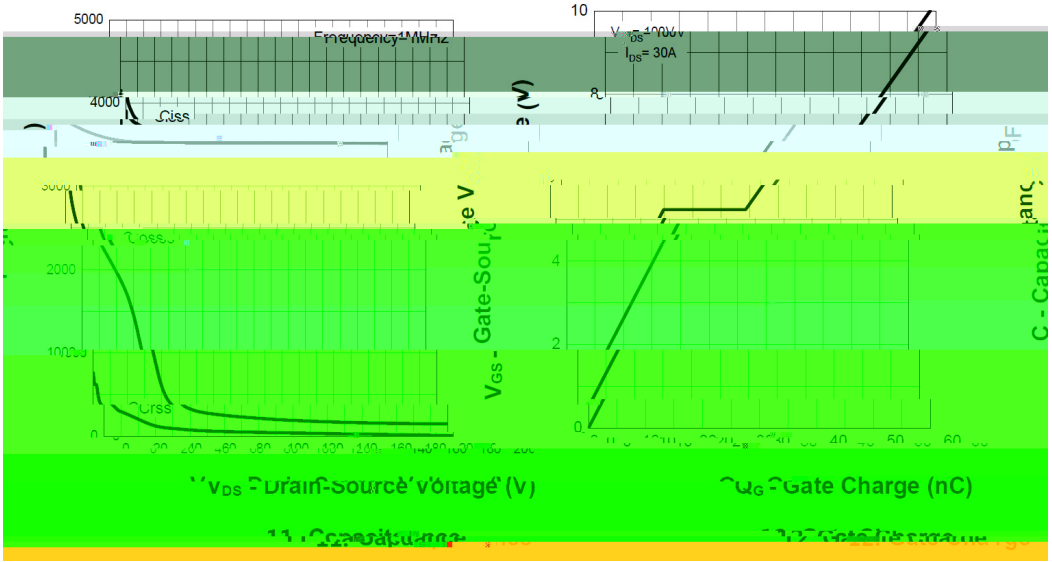




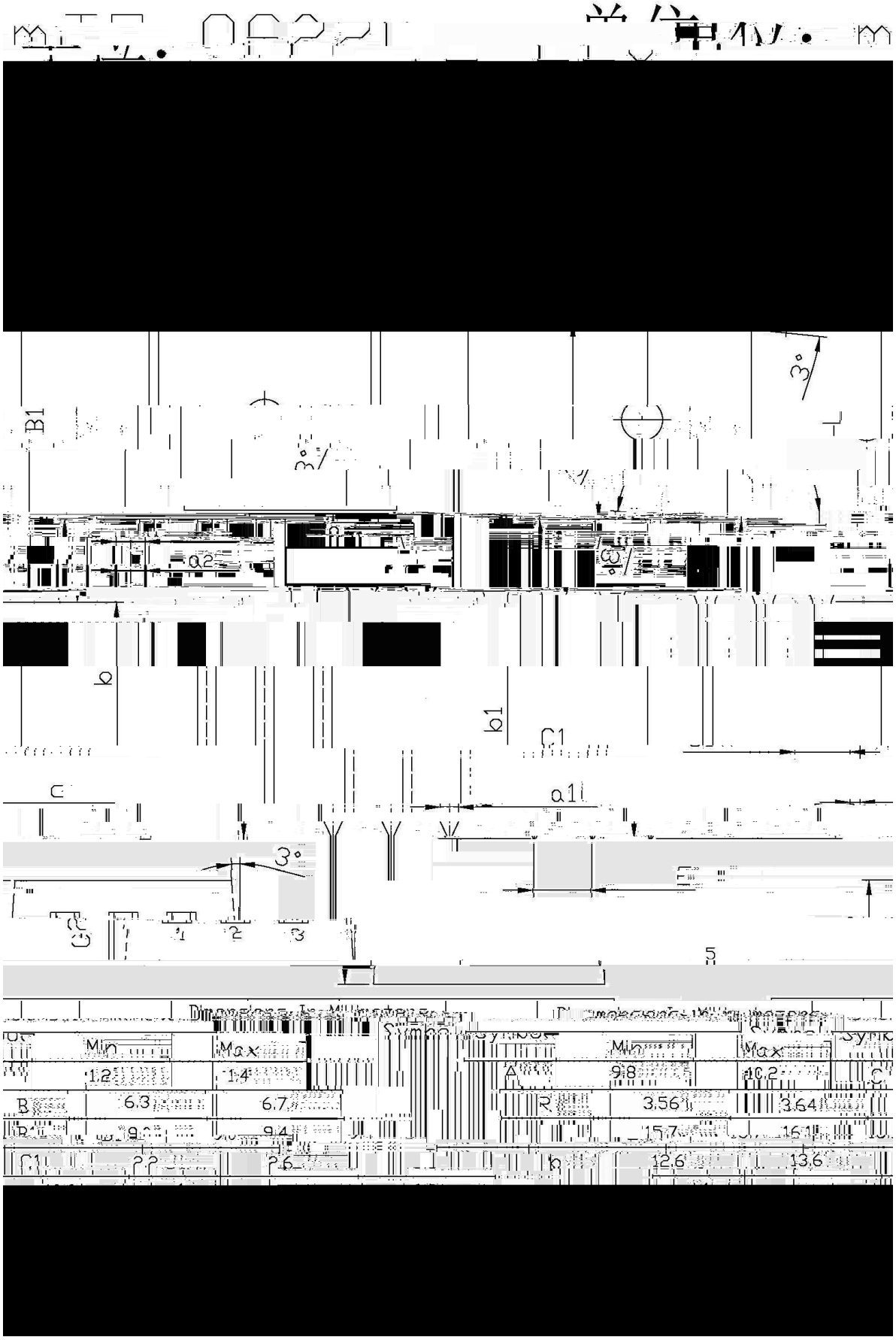
Ô? d ¢ / Electrical Characteristic Curve







Ø =) ¢ / Package Dimensions



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