

BRCS030N06SHBD

Rev.A Apr.-2024



DATA SHEET

TO-263

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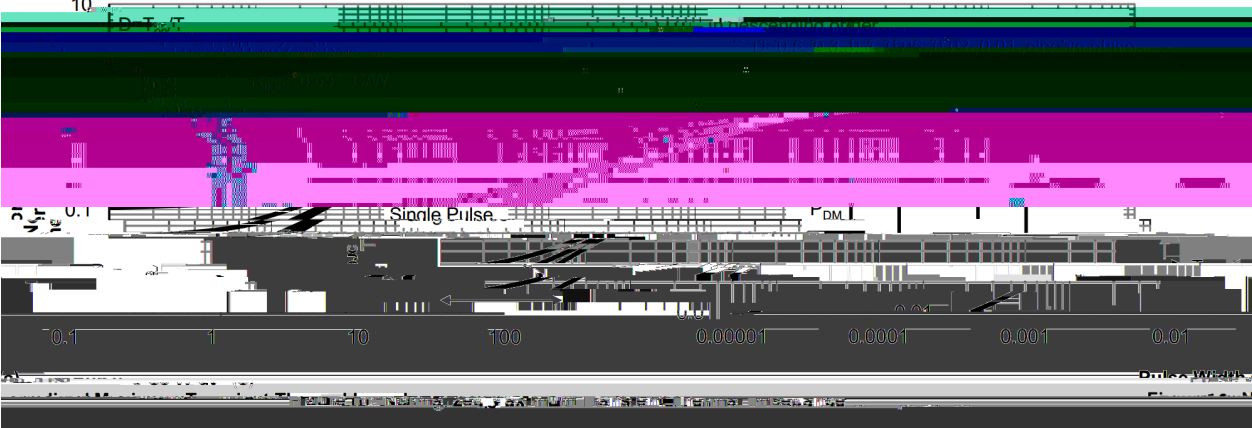
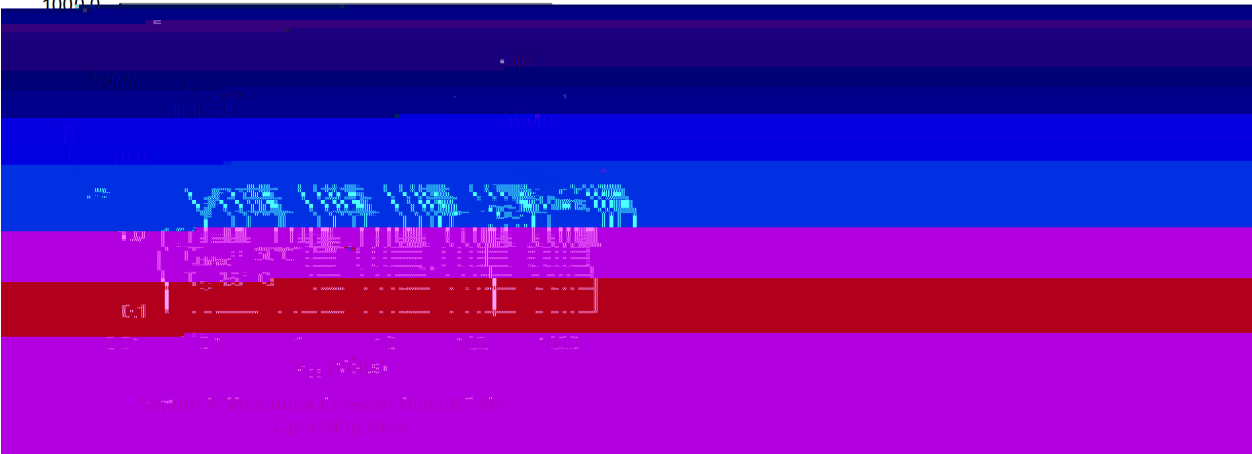
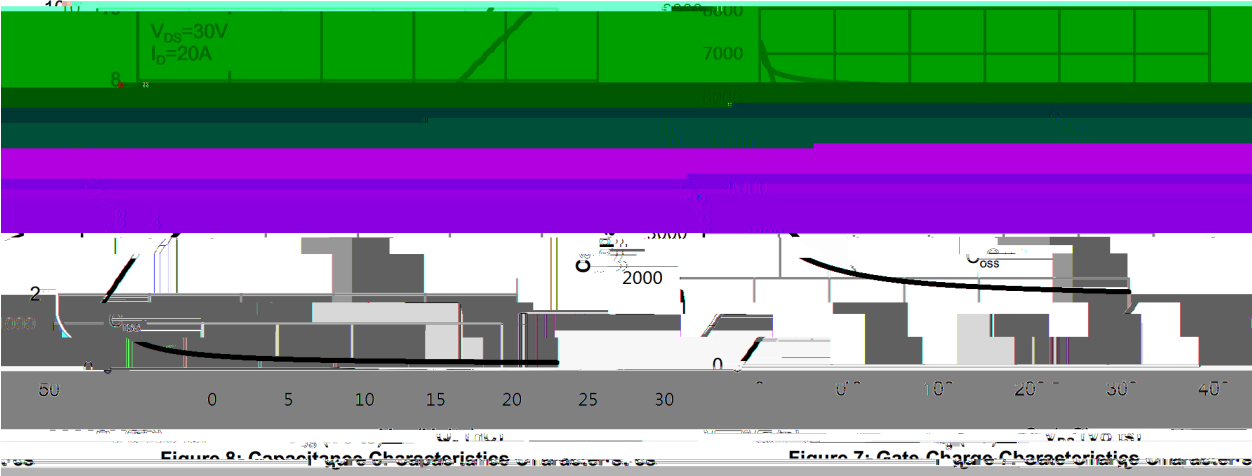
蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

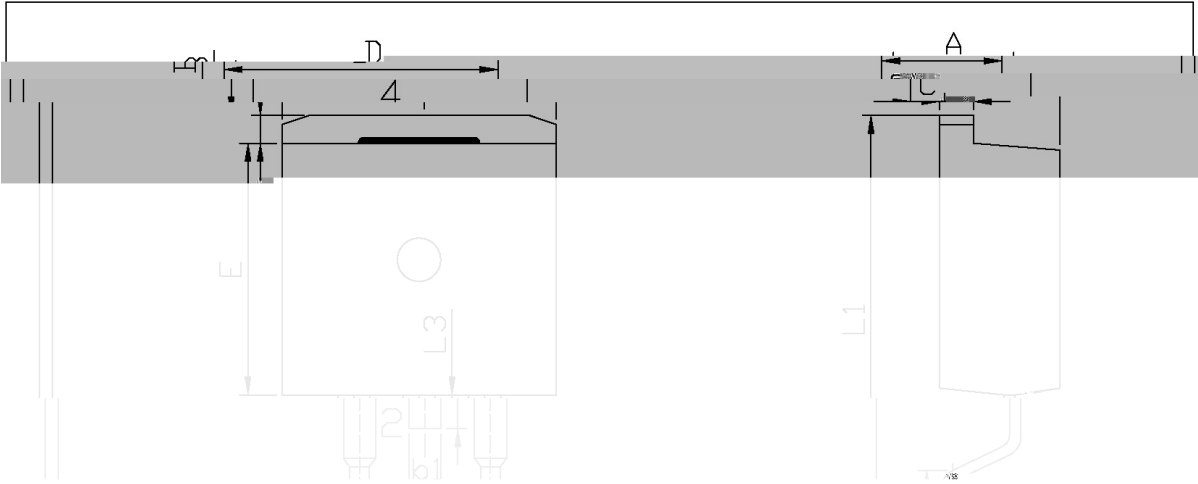
@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage	V _{DSS}	60	V
Drain Current	I _D (T _c =25)	182	A
Pulsed Drain Current	I _{DM}	530	A
Gate-Source Voltage	V _{GS}	f 20	V
Single Pulsed Avalanche Energy(L=0.5mH)	E _{AS}	946	mJ
Avalanche Current	I _{AS}	43.5	A
Total Power Dissipation	P _D (T _c =25)	180	W
Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	t 0 10s R _{AS}		

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Turn-On Delay Time	t _{d(on)}	V _{GS} =10V V _{DS} =30V R _L =1.5 R _{GEN} =3		15.7		ns
Turn-On Rise Time	t _r			16.4		
Turn-Off Delay Time	t					

Electrical Characteristic Curve



Ø □ =) ☿ / Package Dimensions



Max		Min		Max		Min	
9.40		4.30		4.70		9.00	
2.74		1.00		1.40		2.34	
15.00		16.00		1.15		1.35	
1.20		1.60		1.20		1.40	
9.80		10.20					

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

a ç y

- 1o• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;
- 2o• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•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 Ånm³)
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