

BRCS030N06SHBD

Rev.A Apr.-2024



DATA SHEET

TO-263

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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	$I_D(T_C=25^\circ C)$	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	$P_D(T_C=25^\circ C)$	180	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	R_{AS}	t 0.10s	

BRCs030N06SHBD

Rev.A Apr.-2024



DATA SHEET

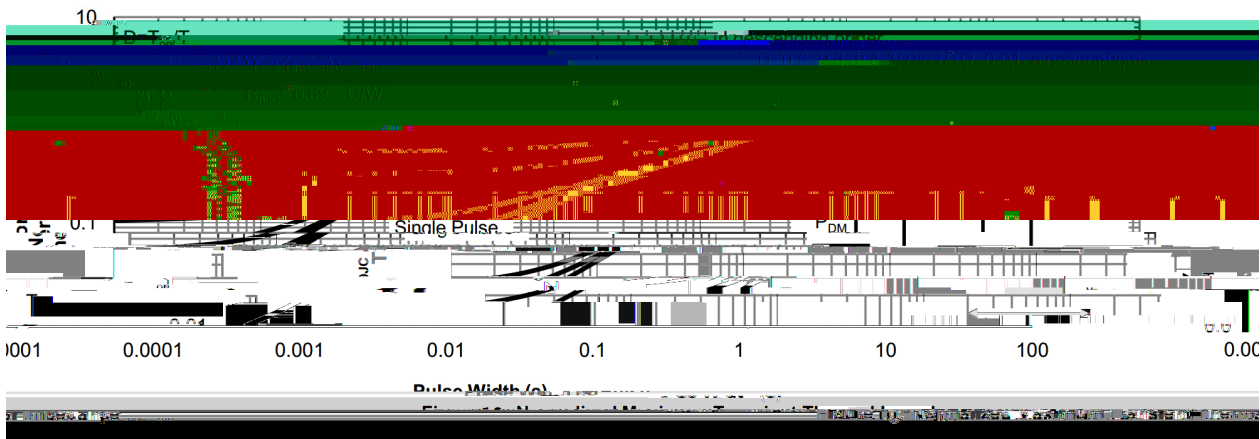
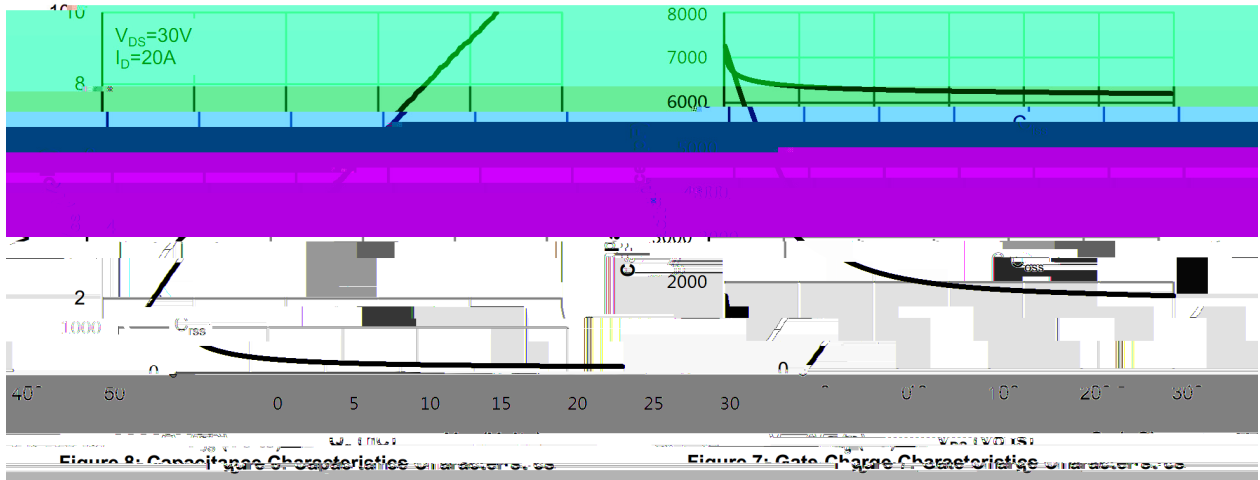
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=1.5$ $R_{GEN}=3$		15.7		ns
Turn-On Rise Time	t_r			16.4		
Turn-Off Delay Time	t_t					

BRCS030N06SHBD

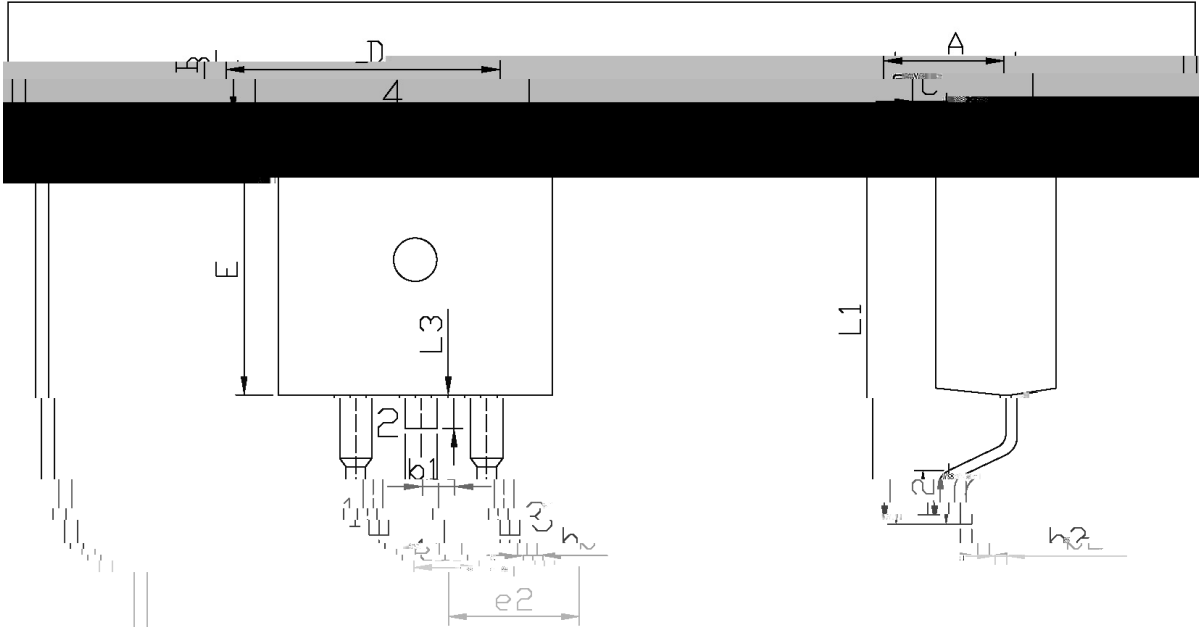
Rev.A Apr.-2024

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Electrical Characteristic Curve



$\varnothing \square =) \phi$ / Package Dimensions



单位: mm

Dimensions in Millimeters		Dimensions in Millimeters		Dimensions in Millimeters	
Symbol	Value	Symbol	Value	Symbol	Value
A	4.30	E	9.00		
B	1.00	e1	2.34		
b1	1.15	L1	15.00		
		L2	16.00		
		L3	9.80		
		D	10.20		



BRCS030N06SHBD
Rev.A Apr.-2024

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

^a ϕ 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	Units ;>û iH	Dimension ;>û p . (unit Ånm ³)
7>û ~ E		