

BRCS009N10SHCD

Rev.A Jul.-2025



DATA SHEET

TO-263-7LA .> // x N ?ú 3 « | • 'ož

N-CHANNEL MOSFET in a TO-263-7LA Plastic Package.



@ f Parameter		... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage		V _{DSS}	100	<
Drain Current ÄDC Å		I _D (Tc=25)	300	'
		I _D (Tc=100)	300	'
Pulsed Drain Current*,**		I _{DM}	1200	'
Gate-Source Voltage		V _{GS}	±20	<
Continuous-Source Current		I _S (Tc=25)	300	'
Single Pulsed Avalanche Energy L=1.0mH		E _{AS}	2592	S 0
Total Power Dissipation		P _D (Tc=25)	750	=
Junction and Storage Temperature Range		T _J ,T _{STG}	-55 to 175	-
Thermal Resistance-Junction to Ambient**	Steady-State	8b 0 '	44	- =
Thermal Resistance-Junction to Case**	Steady-State	8b 0)	0.2	

Notes:

* y Pulse width " 300 s, duty cycle " 2 %

** y Surface Mounted on minimum footprint pad area

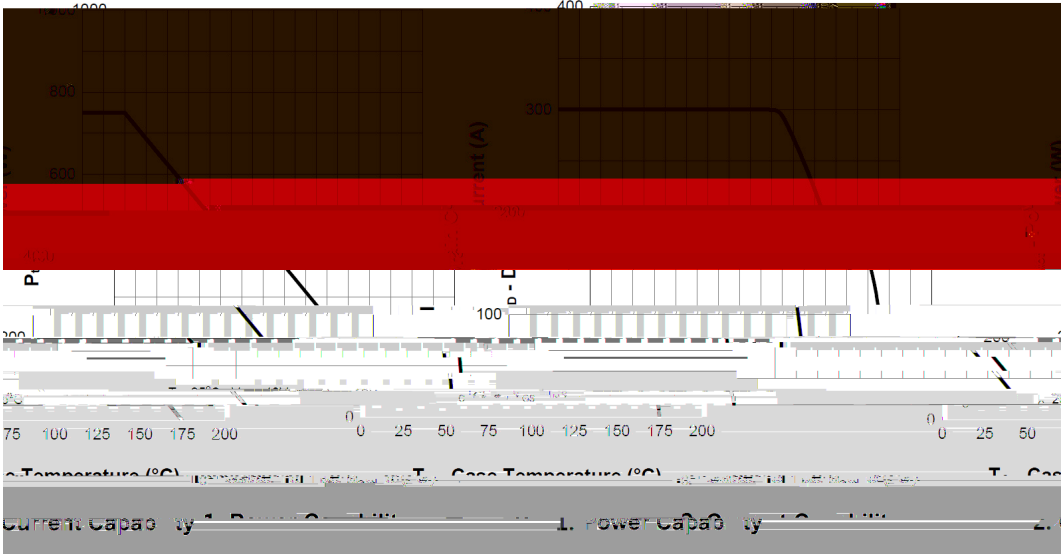
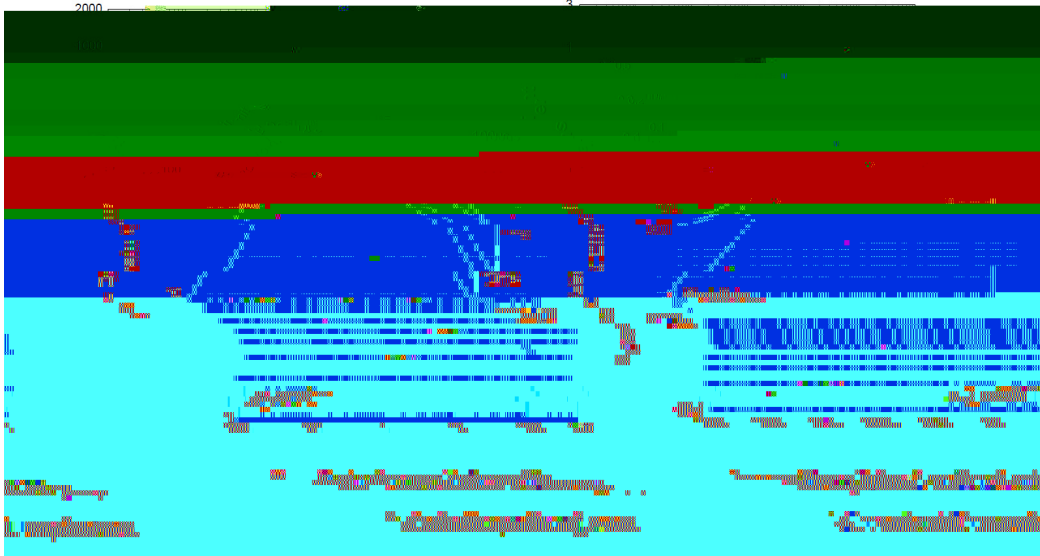
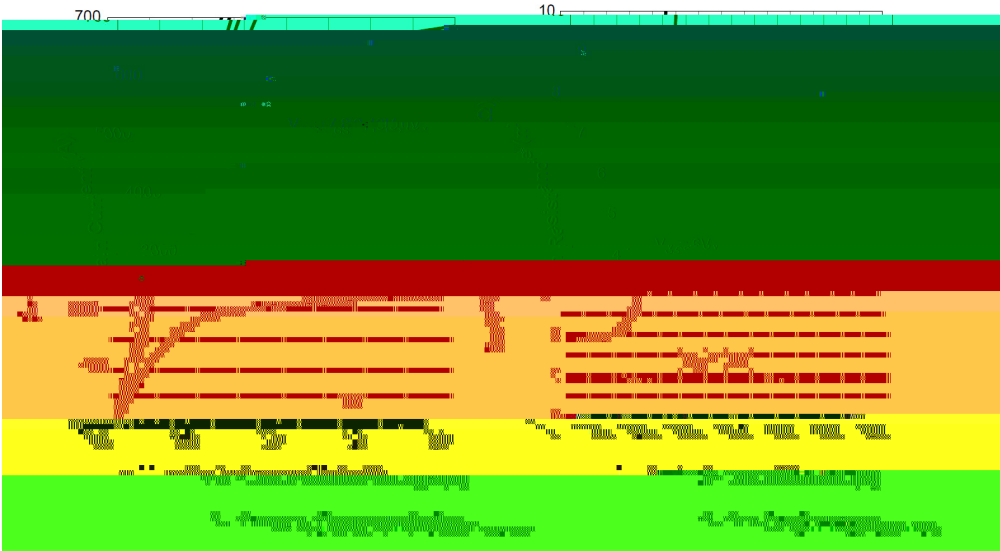
*** y Limited by bonding wire

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
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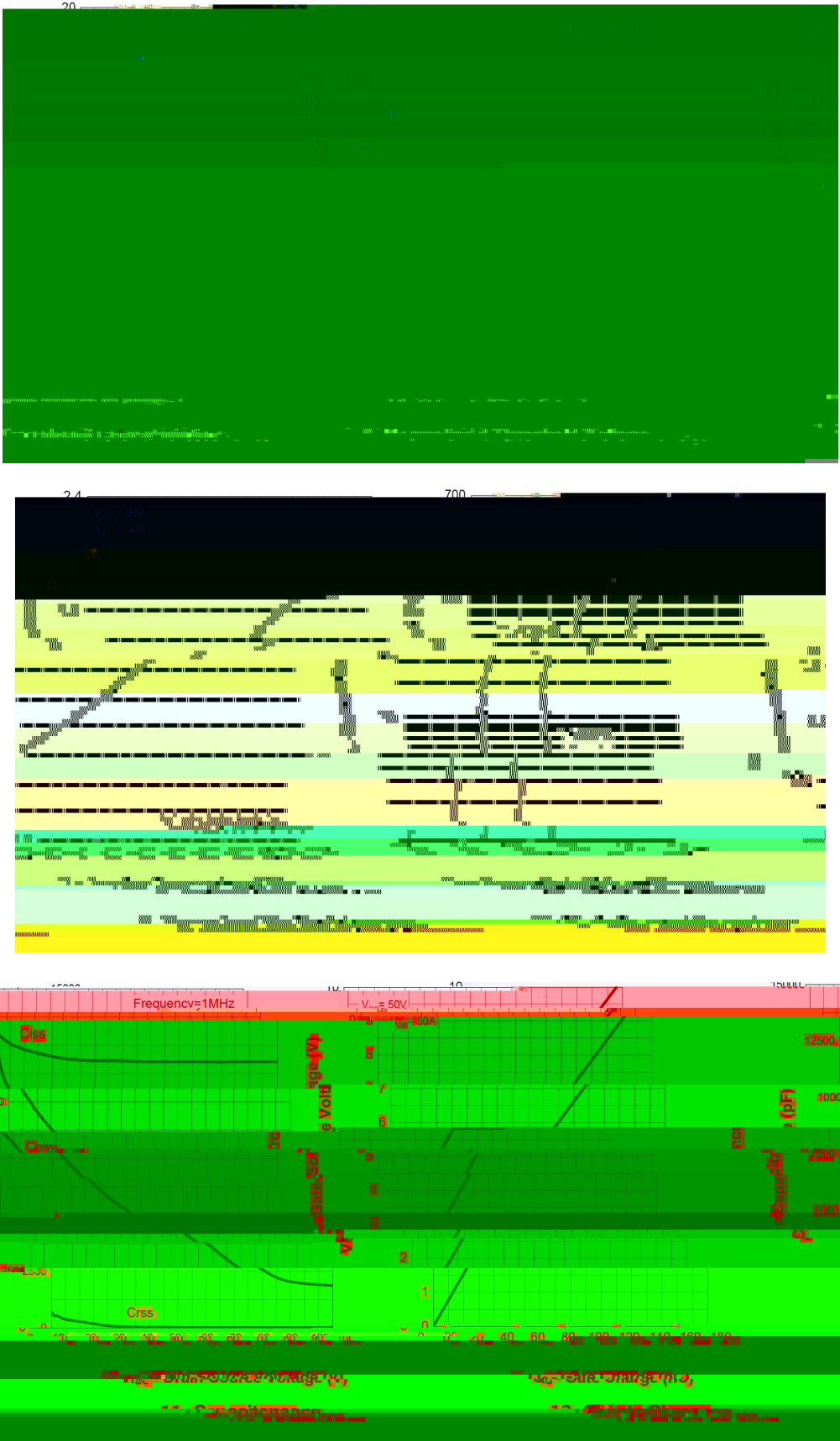
Electrical Characteristics(Ta=25℃ ;)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q _g	V _{GS} =10V V _{DS} =50V I _D =50A		176		nC
Gate Source Charge	Q _{gs}			75		
Gate Drain Charge	Q _{gd}			32		
Turn-On Delay Time	t _{d(on)}	V _{GS} =10V V _{DS} =50V R _L =1Ω R _{GEN} =3.9Ω I _{DS} =50A		46		nS
Turn-On Rise Time	t _r			94		
Turn-Off Delay Time	t _{d(off)}			69		
Turn-Off Fall Time	t _f			70		

Electrical Characteristic Curve



Electrical Characteristic Curve



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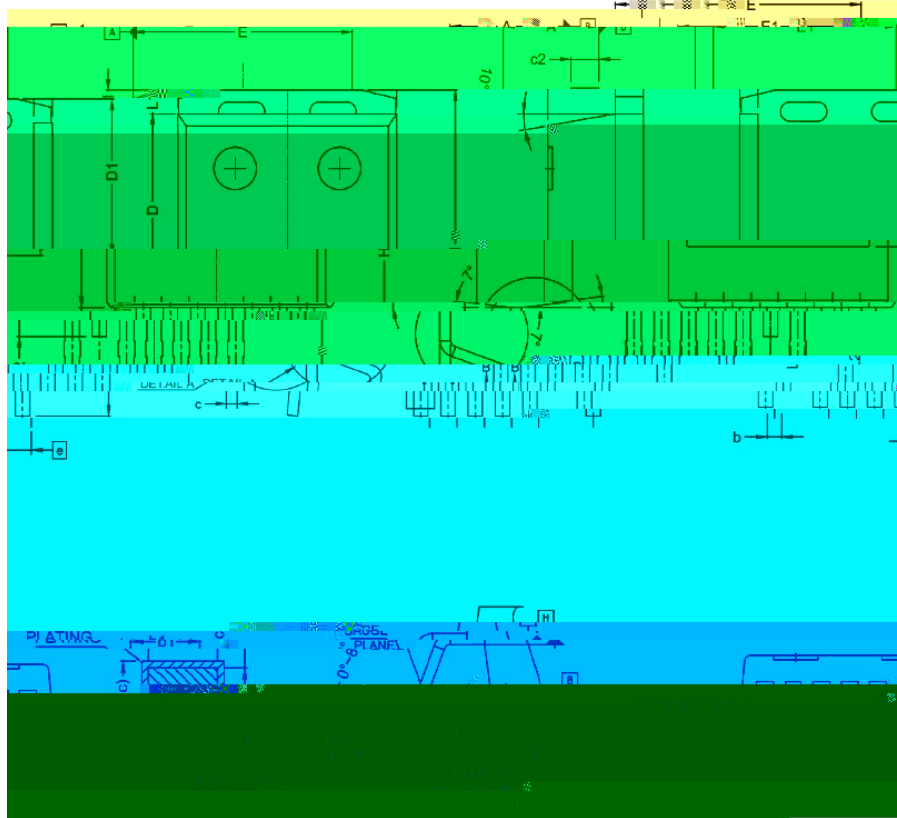
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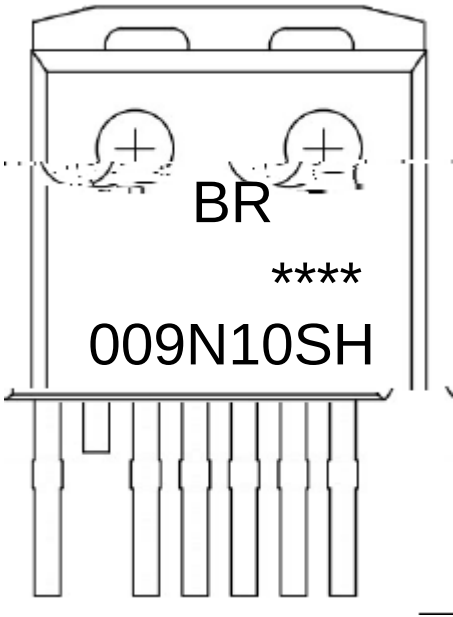
蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

Ø □ =) ☎ / Package Dimensions



, M y f / Marking Instructions



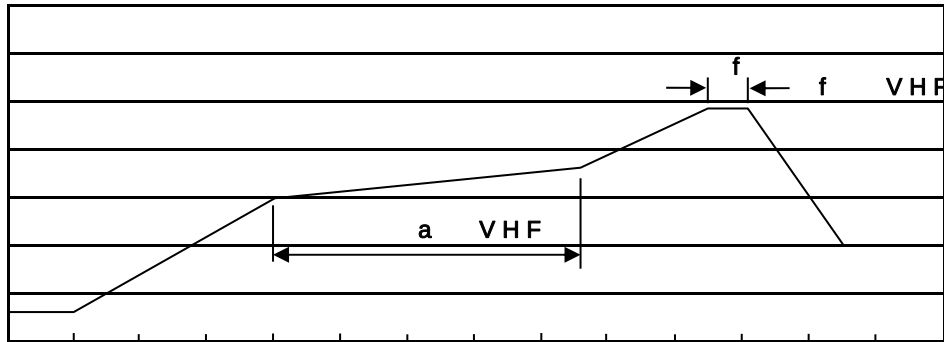
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(8 y , [W A
4 9 . y ° Z W A
y ŷ D Z W A k š ŷ D Z J

Note:
BR: Company Code
009N10SH: Product Type Code
****: Lot No. Code, code change with Lot No.



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

7HPSHUDWXUH



7LPH VHF

ačy

10•Ä½“† 150½180 - kž• 60½90sec;

20•Q>“† 245 r5 - kž•4 Ò 5 r0.5sec;

30•D Nò i Ò 0,† 2½10 - /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 /Că 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-263-7LA	800	1	800	6	4,800	13 s ×24	360×360×50	380×335×366

„Đ y f / Notices

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