

BRD65R800C

Rev.A May.-2024



DATA SHEET

TO-252 .> // x N ?ú 3 650V

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@ f Parameter	... Z Symbol	f › Rating	% y Unit
Drain-Source Voltage	V_{DSS}	650	V
Drain Current	$I_D(T_C=25^\circ C)$	6	A
Drain Current - Pulsed	I_{DM}	24	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	50	mJ
Avalanche Current	I_{AS}	3.4	A
Power Dissipation	$P_D(T_C=25^\circ C)$	45	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	-
Junction-to-Ambient	R_{JA}	60	- /W
Junction-to-Case	R_{JC}	2.7	- /W

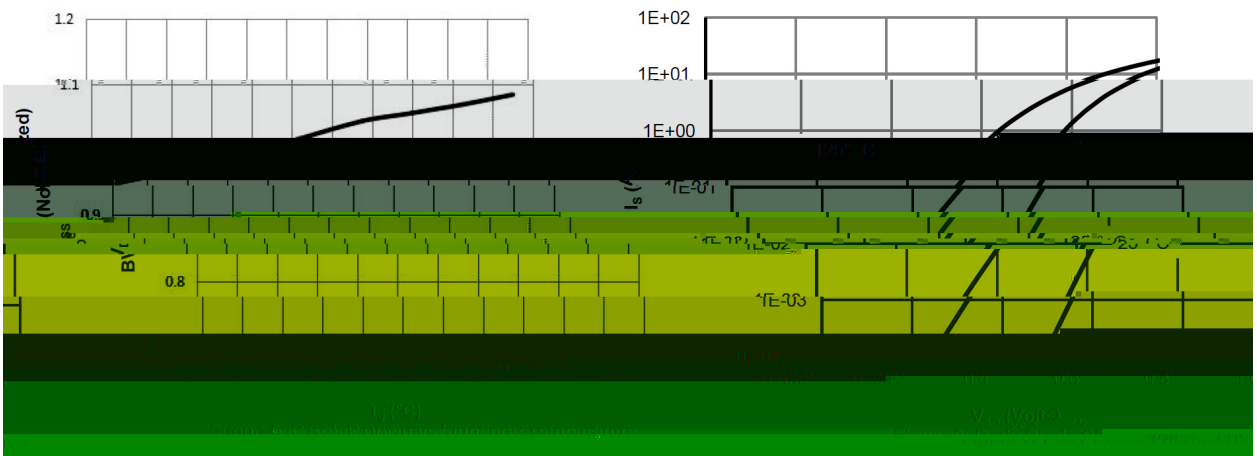
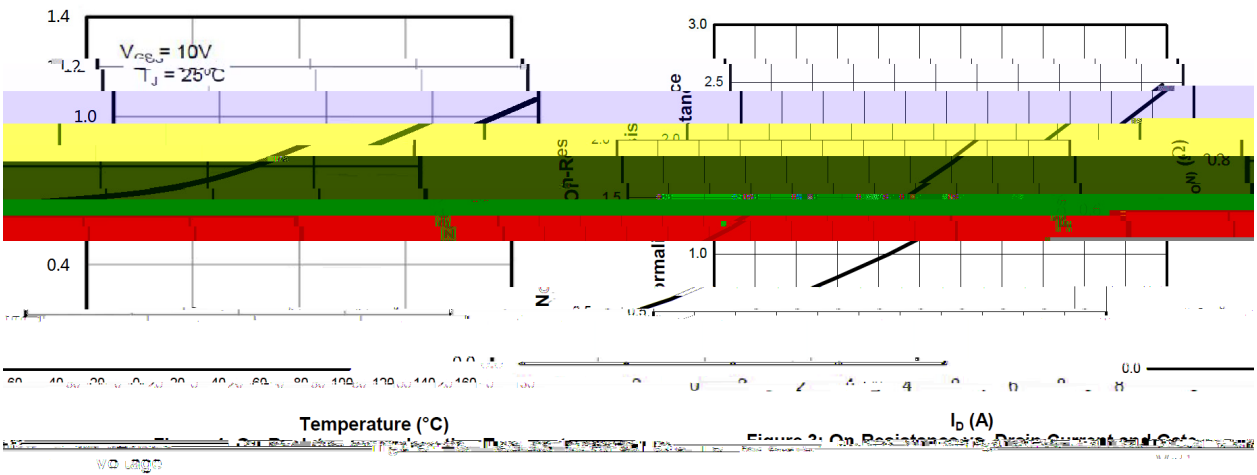
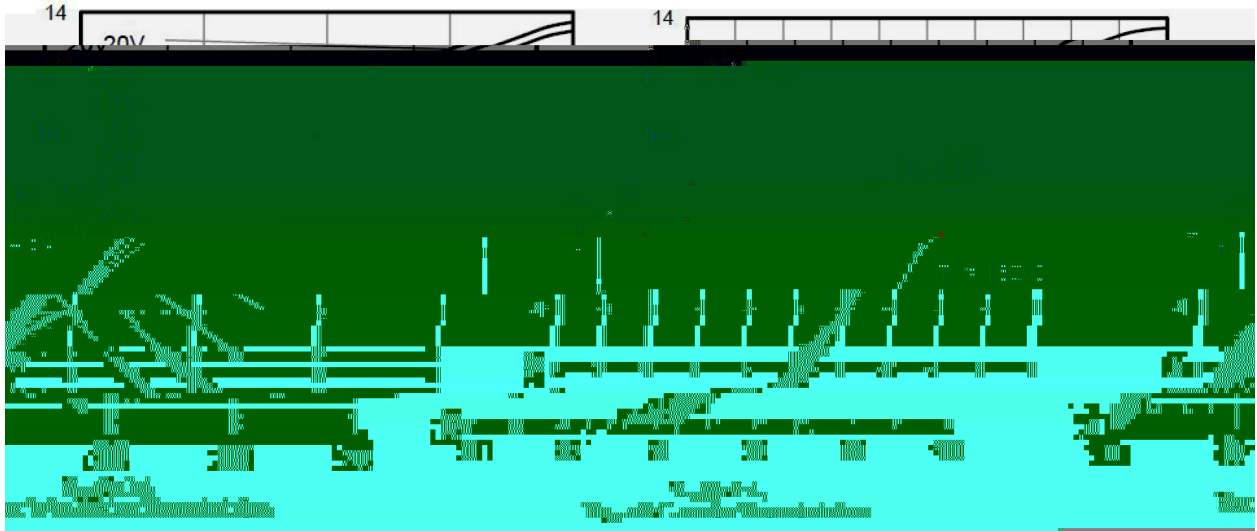
@ f Parameter	... Z Symbol	y Ú ^ Test Conditions	Â 4 › Min	Â ° › Typ	Â Ý › Max	% y Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250$ A	650	690		V
Zero Gate Voltage Drain Current	I_{DSS}	V				

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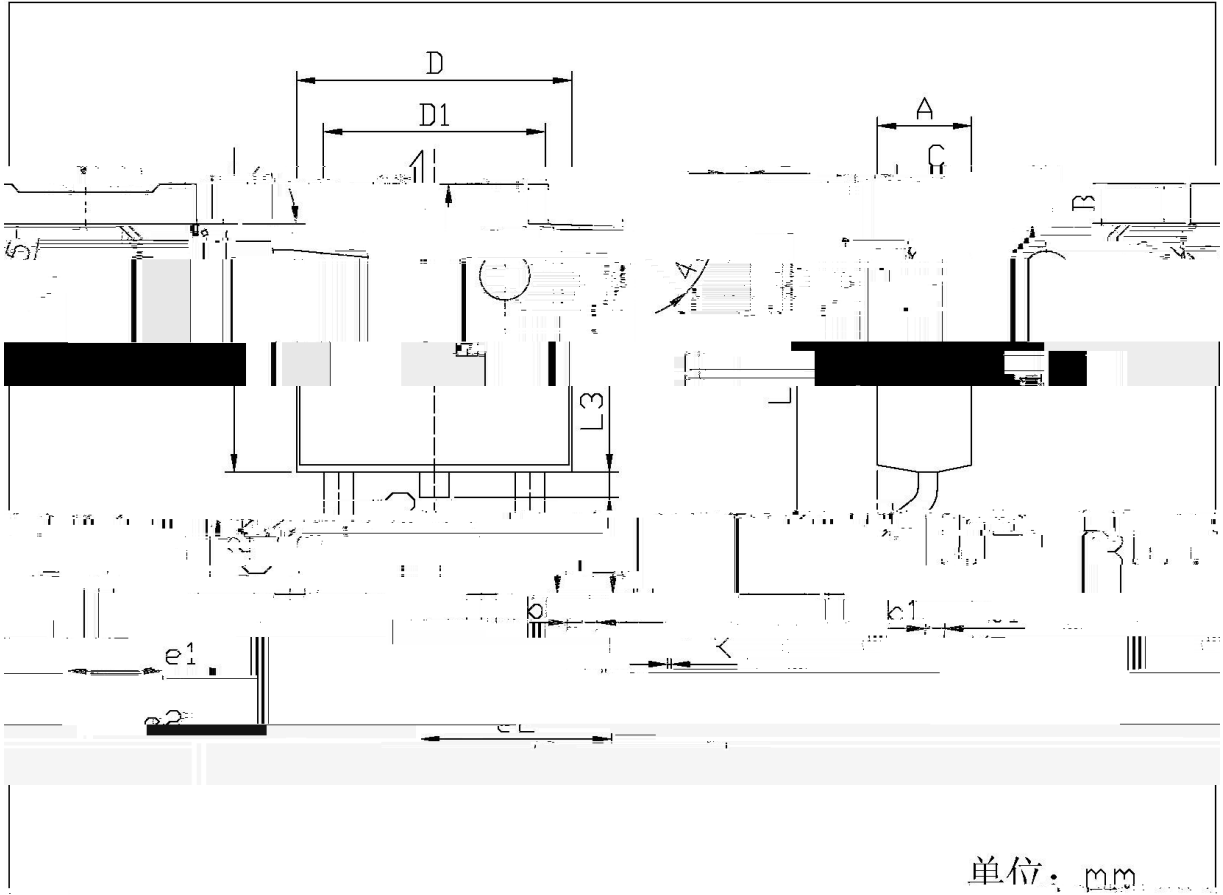
Electrical Characteristic Curve



Electrical Characteristic Curve



Ø □ =) φ / Package Dimensions



单位: mm

Dimensions		Millimeters		Dimensions		In Millimeters	
Symbol	Min	Max	Symbol	Min	Max	Symbol	Min
e1	2.24	2.34	B	0.95	1.25		
e2	4.43	4.72	b	0.70	0.90		
L3	10.30	11.51	k1	0.45	0.55		
D	5.00	5.55	K	0.50	0.60		
D1	6.45	6.75					
	0.10						
			D1	5.10	5.50	K	0.60

T0-252

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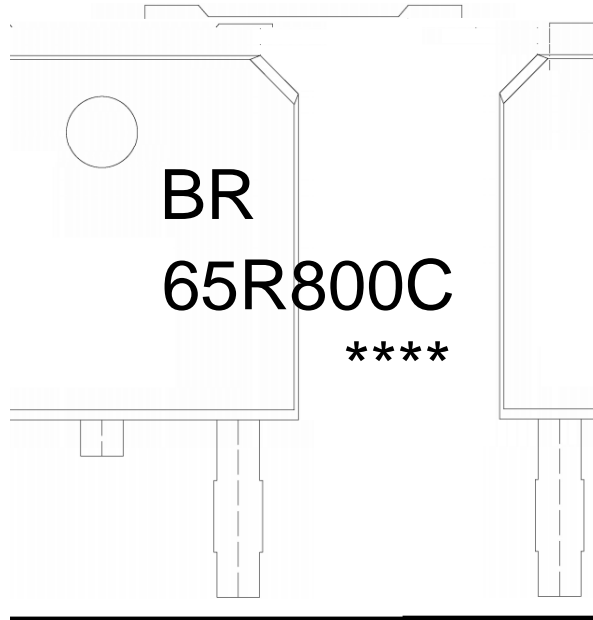
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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

, M y f / Marking Instructions



BR y [W A
8) y ° Z W A
y ÿ D Z W A k š ÿ D Z J

Note:

BR: Company Code

65R800C: Product Type Code

****: Lot No. Code, code change with Lot No

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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