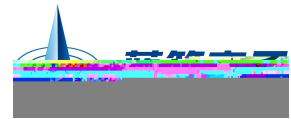


BRF65R280C

Rev.B May.-2022



DATA SHEET

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A

2022.4.28

ALL

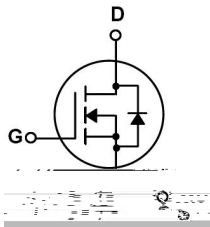
/ Descriptions

TO-220F N 650V

N-CHANNEL 650V Super-Junction Power MOSFET in a TO-220F Plastic Package.

/ Features $R_{DS(on)} \times Q_g$ 100% ROHSVery low $R_{DS(on)} \times Q_g$, 100% avalanche tested, RoHS compliant.**/ Applications**

For switch mode power supply, uninterruptible power supply, power factor correction.

/ Equivalent Circuit**/ Pinning**

PIN1 G

PIN 2 D

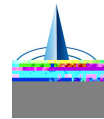
PIN 3 S

/ Marking

See Marking Instructions.

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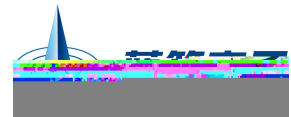
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Parameter	Symbol	Rating	
Drain-Source Voltage	V_{DSS}	650	
Drain Current	$I_D(T_c=25^{\circ}C)$	14	
Drain Current - Pulsed	I_{DM}	56	
Gate-Source Voltage	V_{GS}	± 30	
Single Pulsed Avalanche Energy	E_{AS}	433	mJ

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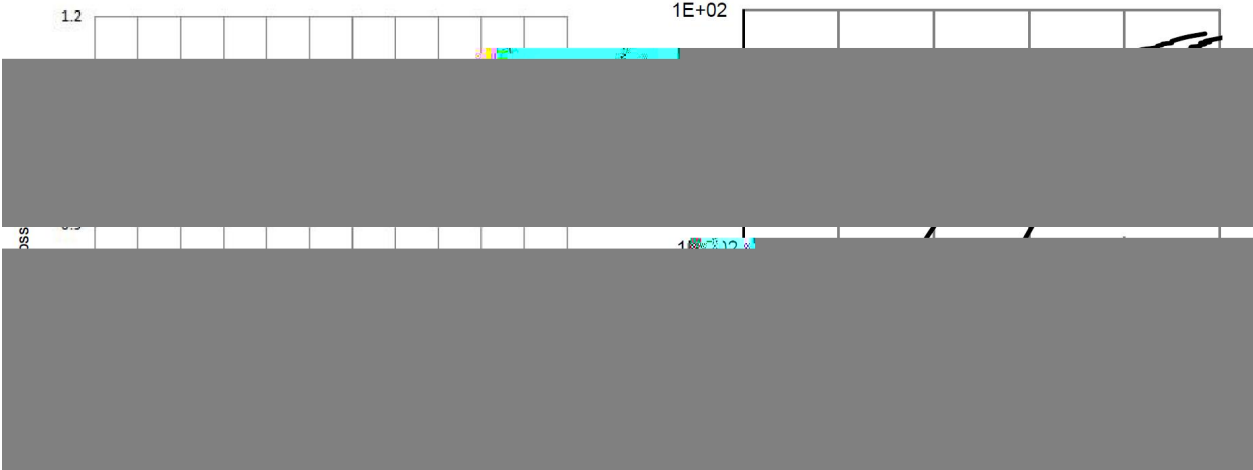
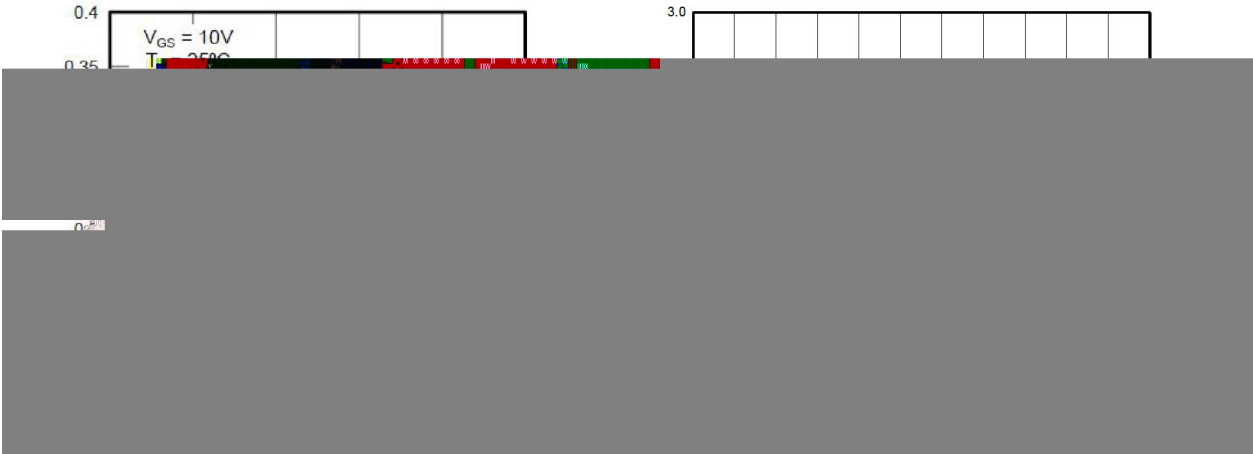
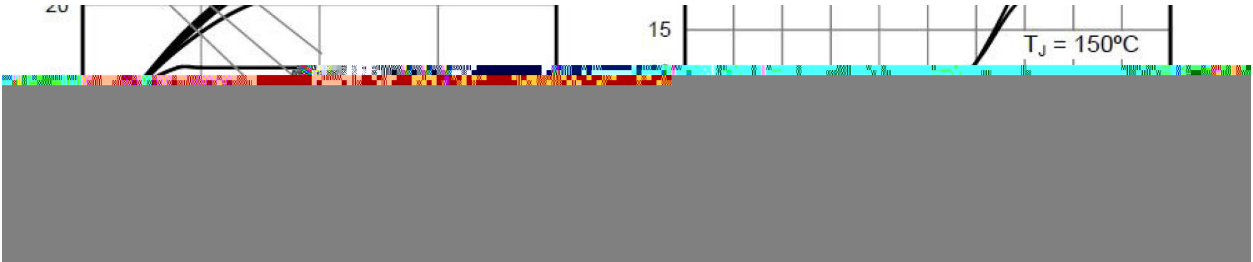
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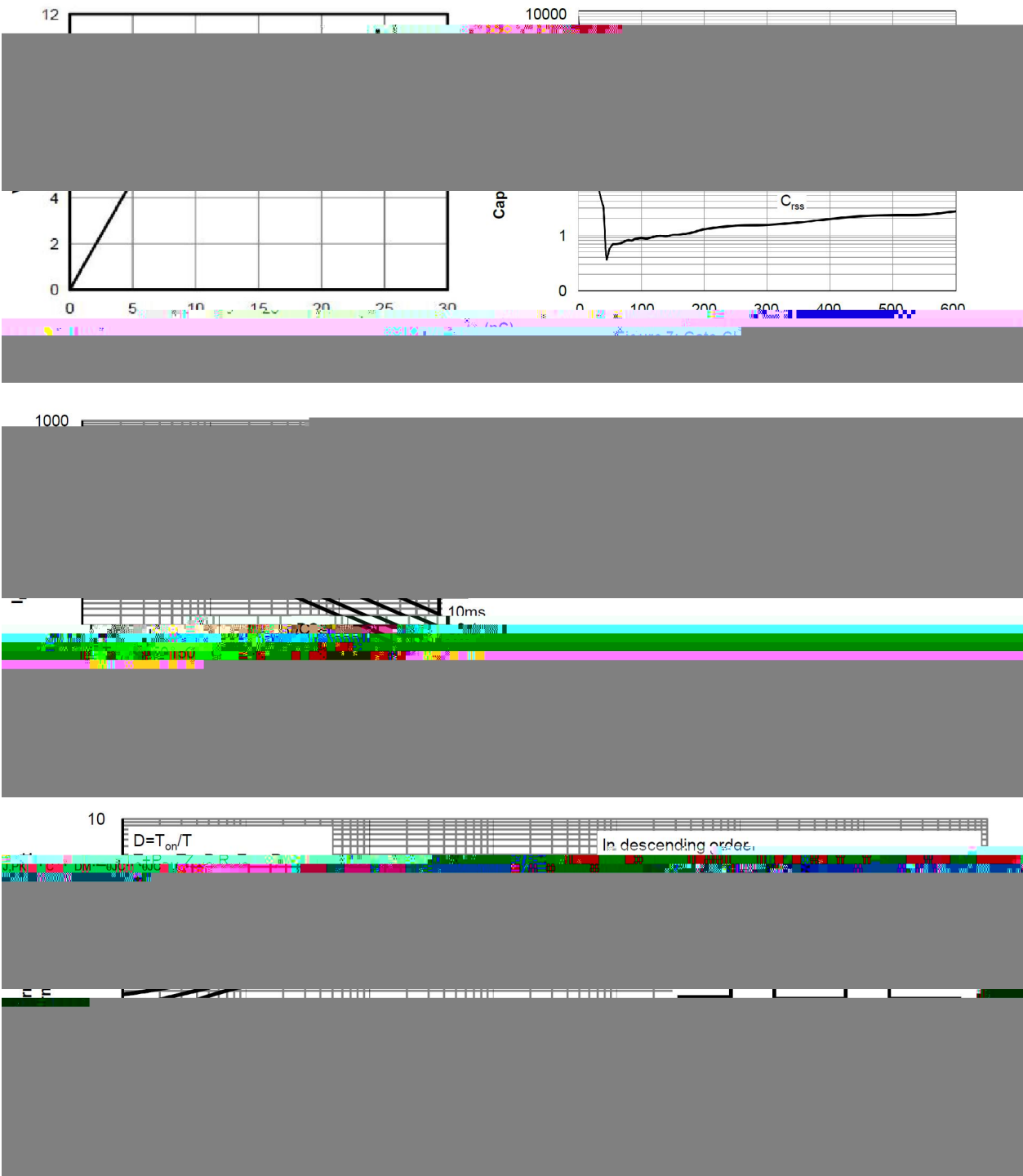
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous						

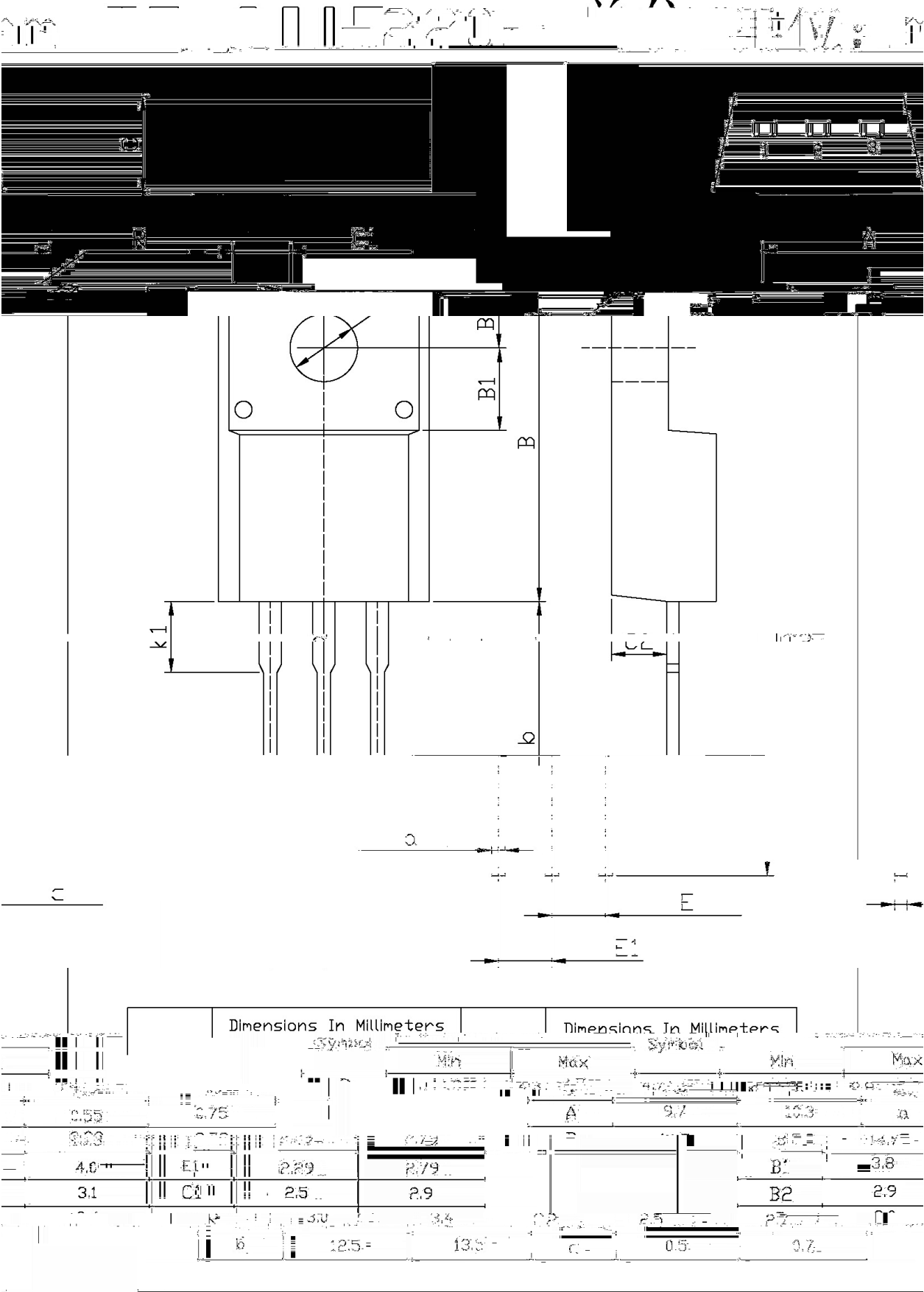
/ Electrical Characteristic Curve

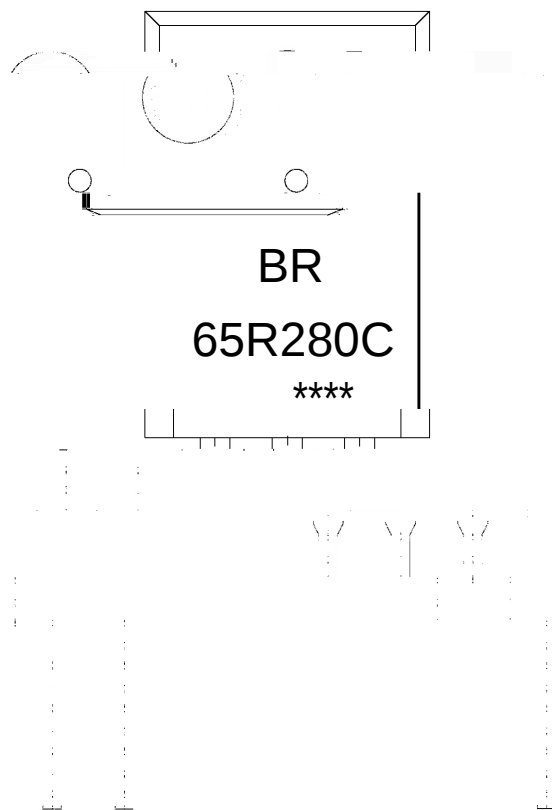


/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

说明：

BR： 为公司代码

65R280C： 为型号代码

****： 为生产批号代码，随生产批号变化

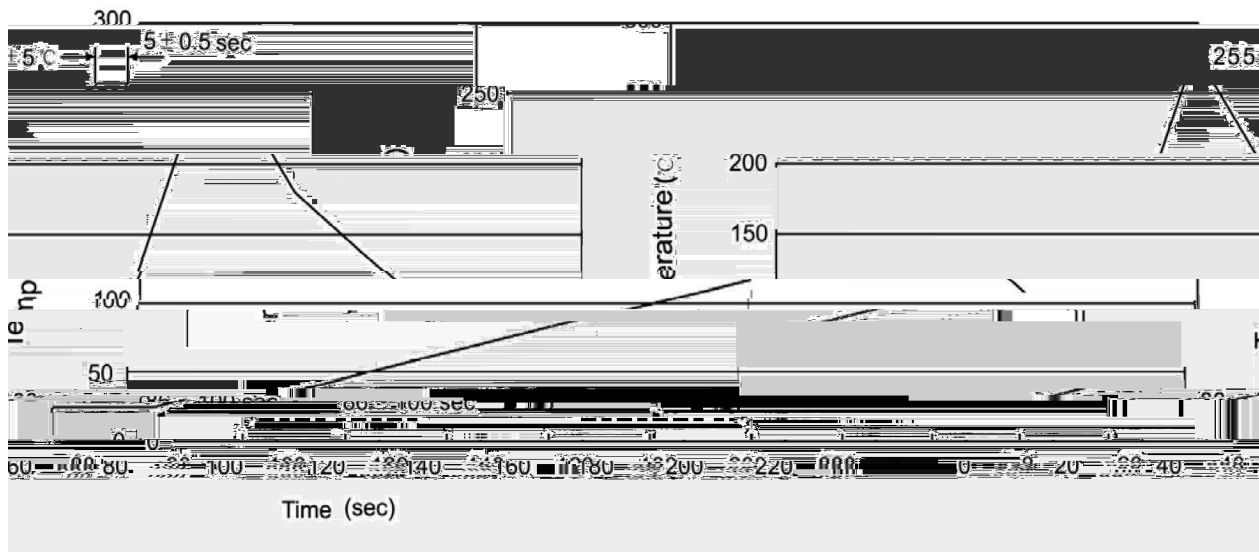
Note:

BR: Company Code

65R280C: Product Type

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

() / Temperature Profile for Dip Soldering(Pb-Free)



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 255±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

/ Resistance to Soldering Heat Test Conditions

温度：270±5°C

时间：10±1 sec.

Temp.:270±5°C

Time:10±1 sec

/ Packaging SPEC.

散件包装 / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag 袋	Inner Box 盒	Outer Box 箱