

描述 / Descriptions

TO-220FL N 650V

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

特点 / Features

 $R_{DS(on)} \times Q_g$ 100%

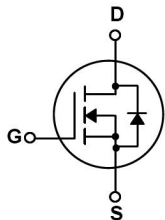
ROHS

Very low $R_{DS(on)} \times Q_g$, 100% avalanche tested, RoHS compliant, HF Product.

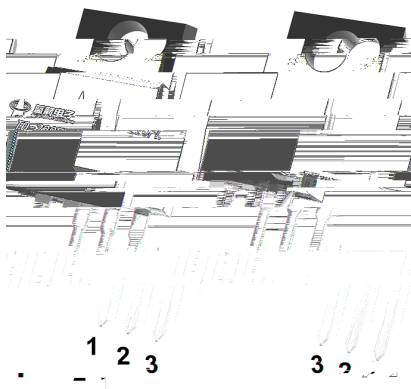
应用 / Applications

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

等效电路 / Equivalent Circuit



引脚 / Pinning



PIN1 G

PIN 2 D

PIN 3 S

标记 / Marking

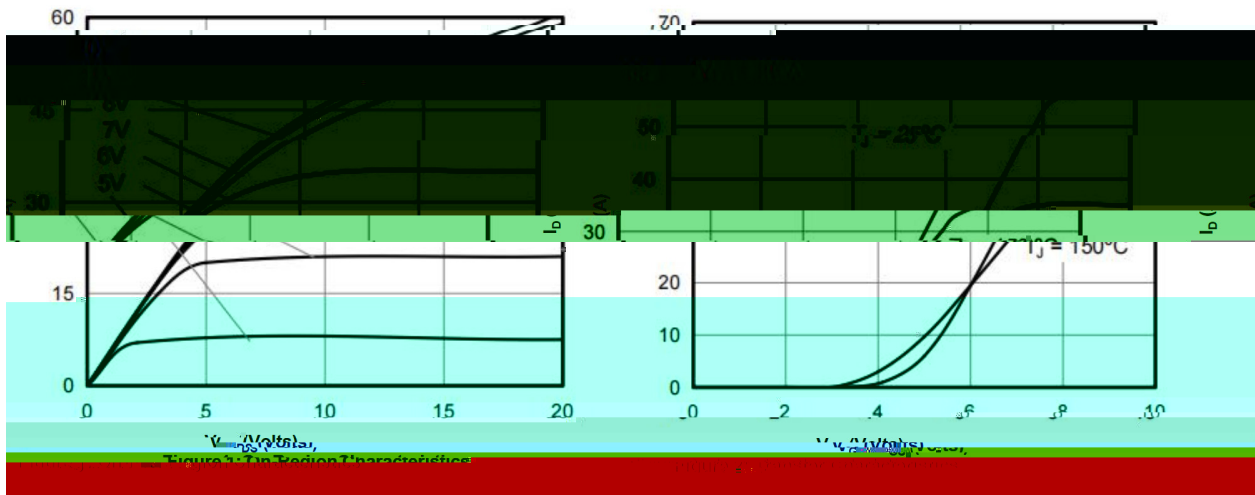
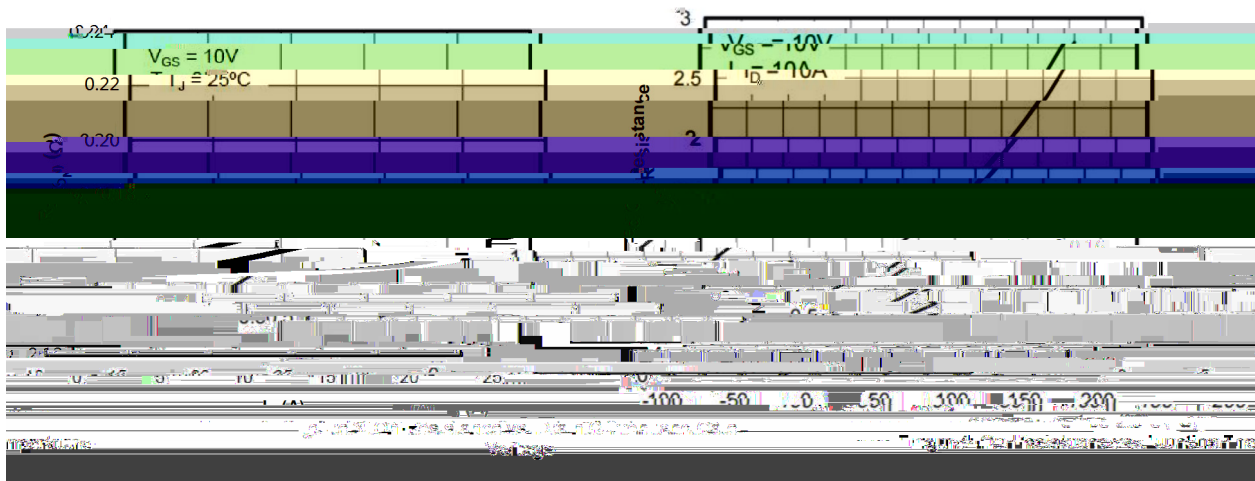
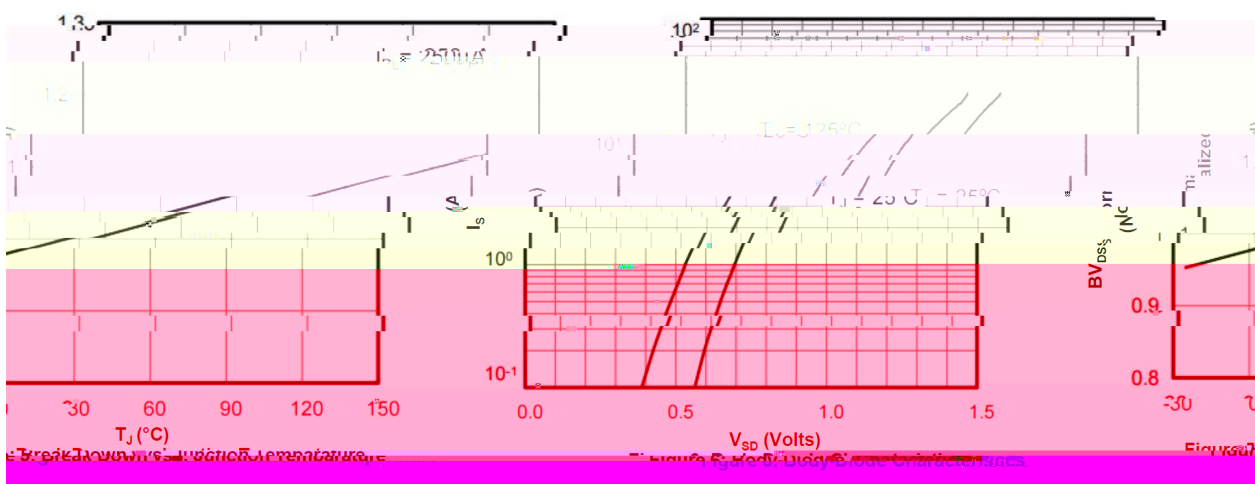
See Marking Instructions.

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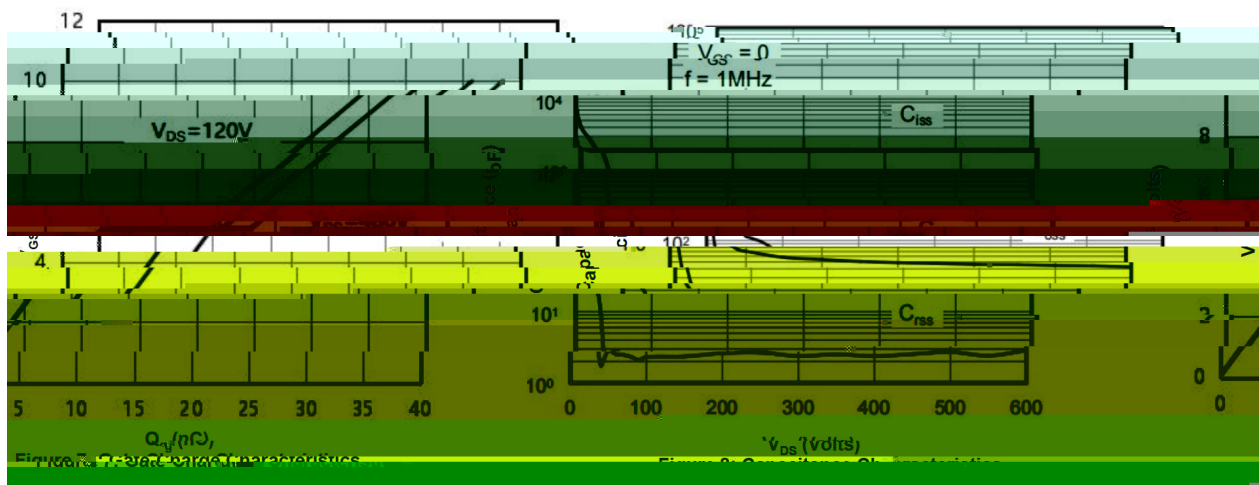
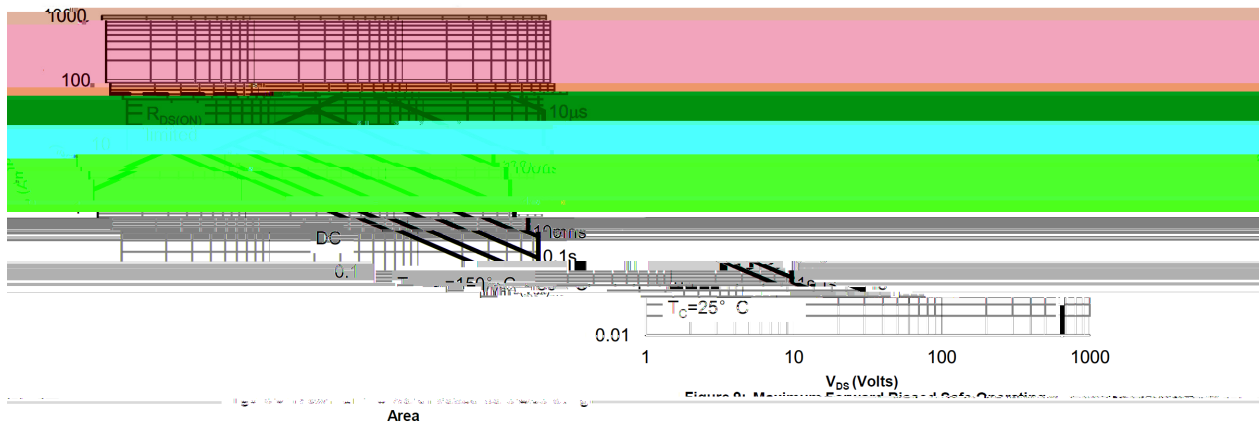
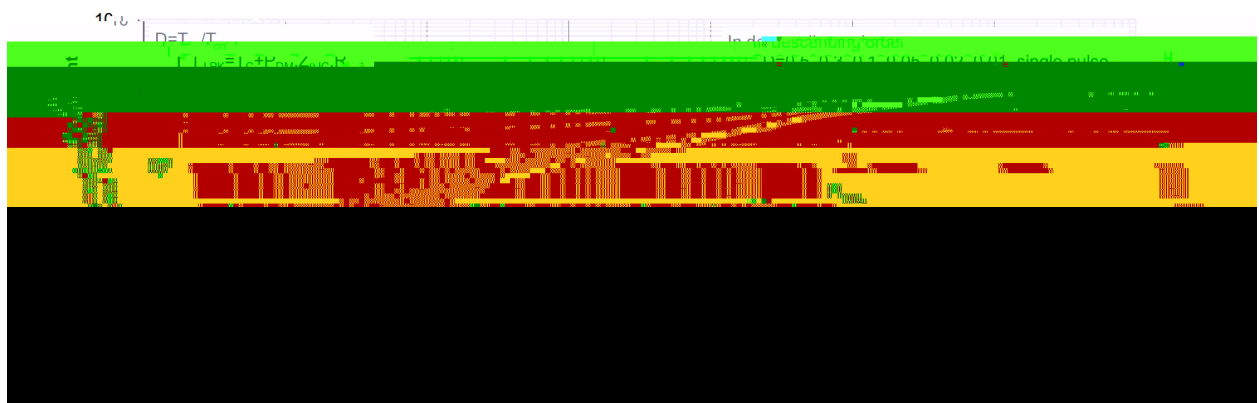
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I_S			20		A
Total Gate Charge	Q_g	$V_{DS}=480V \quad I_D=10A$ $V_{GS}=10V$		28.1		nC
Gate-Source Charge	Q_{gs}			8.1		nC
Gate-Drain Charge	Q_{gd}			2.1		nC
Reverse recovery time	t_{rr}	$V_R=400V, \quad I_F=10A,$ $dI_F/dt=100A/\mu s$		283		ns
Reverse recovery charge	Q_{rr}			3.3		μC

Electrical Characteristic Curve



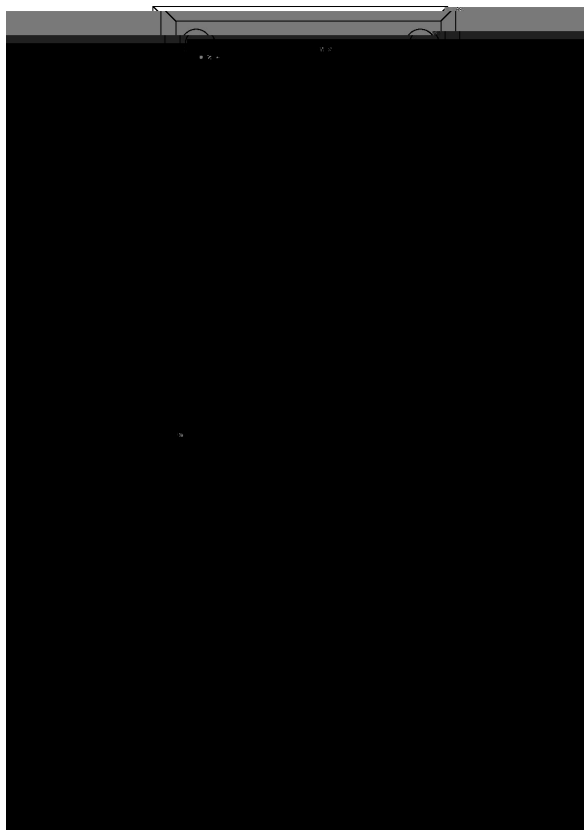
Electrical Characteristic Curve



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4. 1. 1 / Marking Instructions



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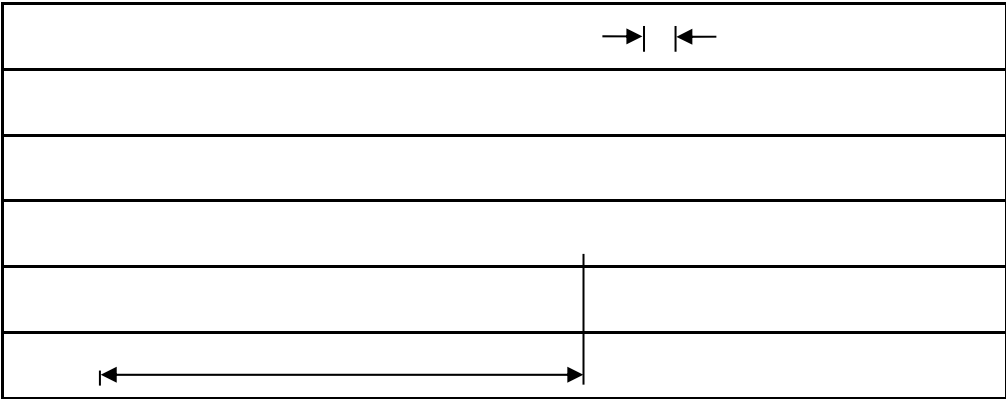
Note:

BR: Company Code

65R180T: Product Type Code

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

↓ \$ 71 W'E M f (Q'Z) / Temperature Profile for Dip Soldering(Pb-Free)



- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

↓ 0 q 2`Y T / Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

9 E 2— / Packaging SPEC.

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-220FL	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

ä v L"Q / Notices