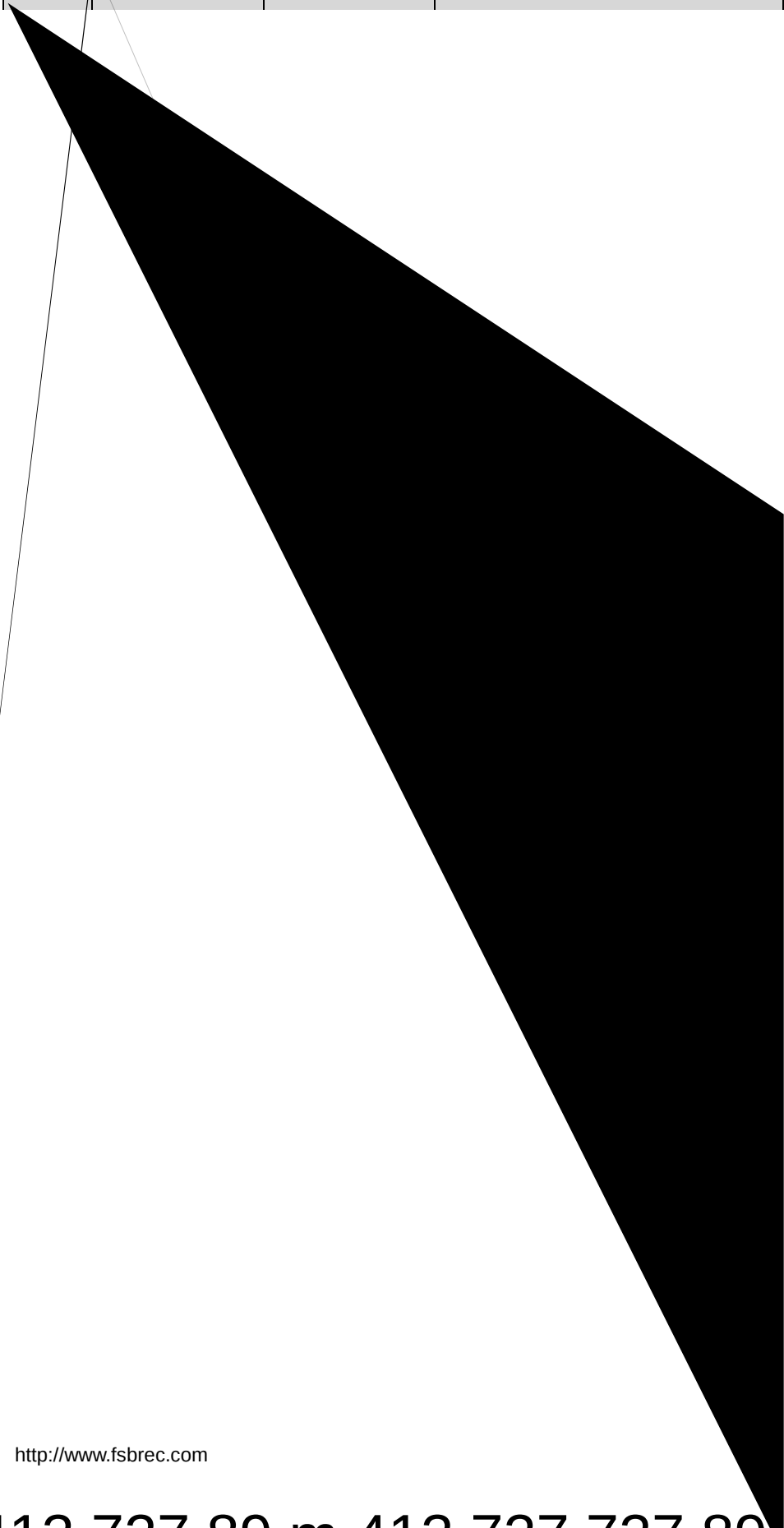


B5

--	--	--	--	--	--



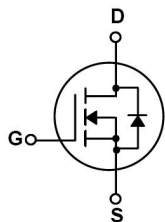
/ Descriptions

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.

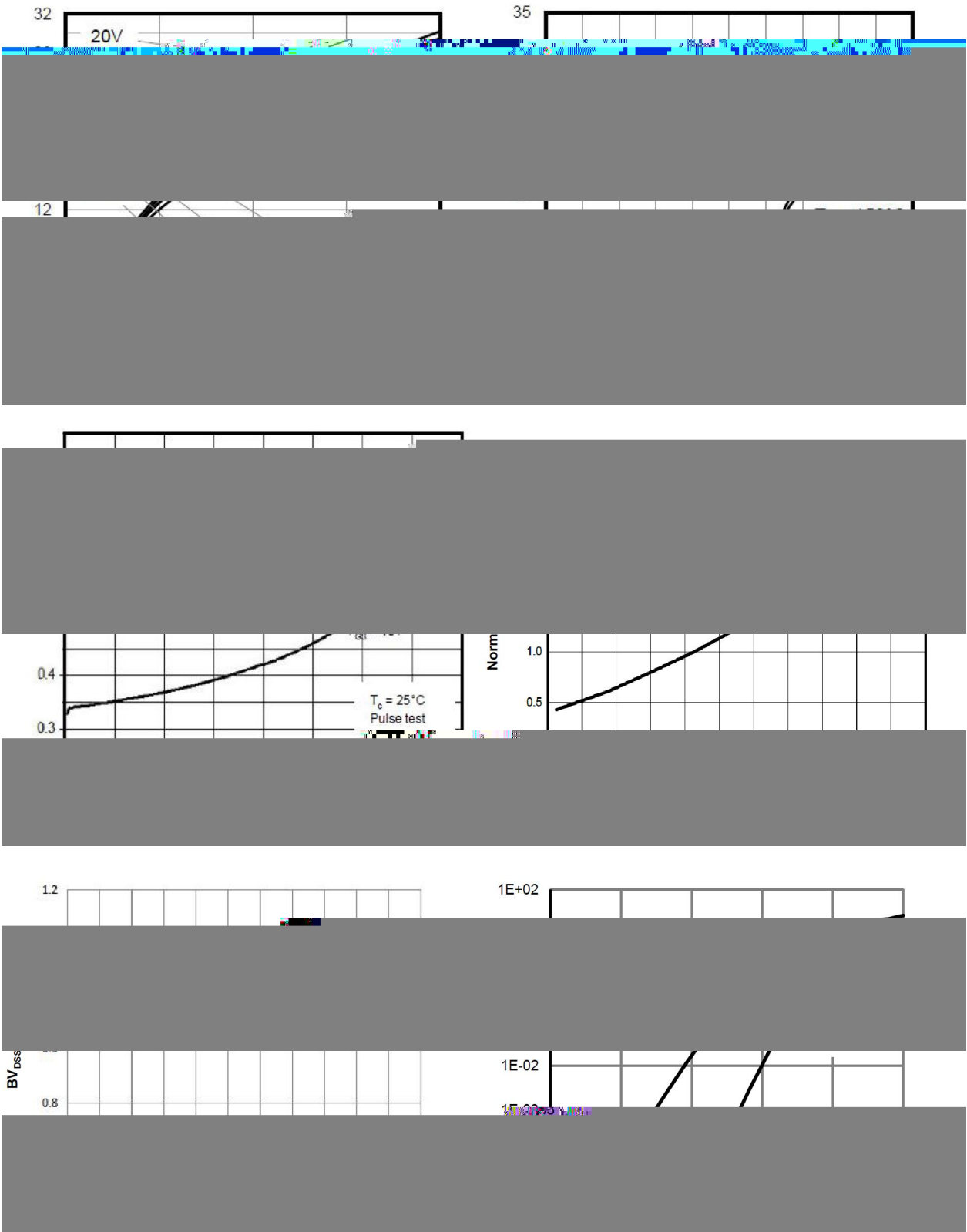
Rev.B May.-2022

[illegible]

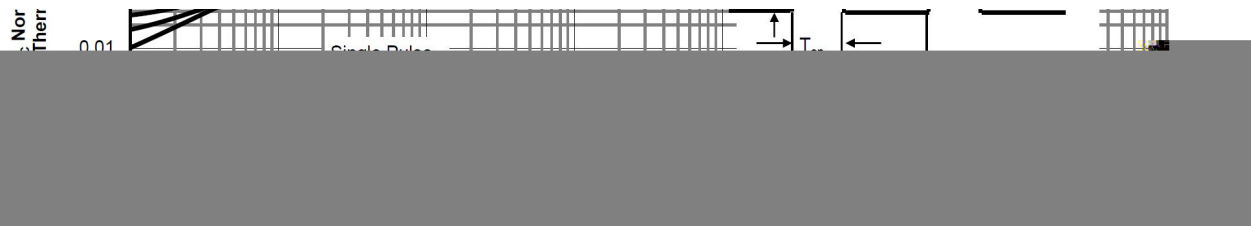
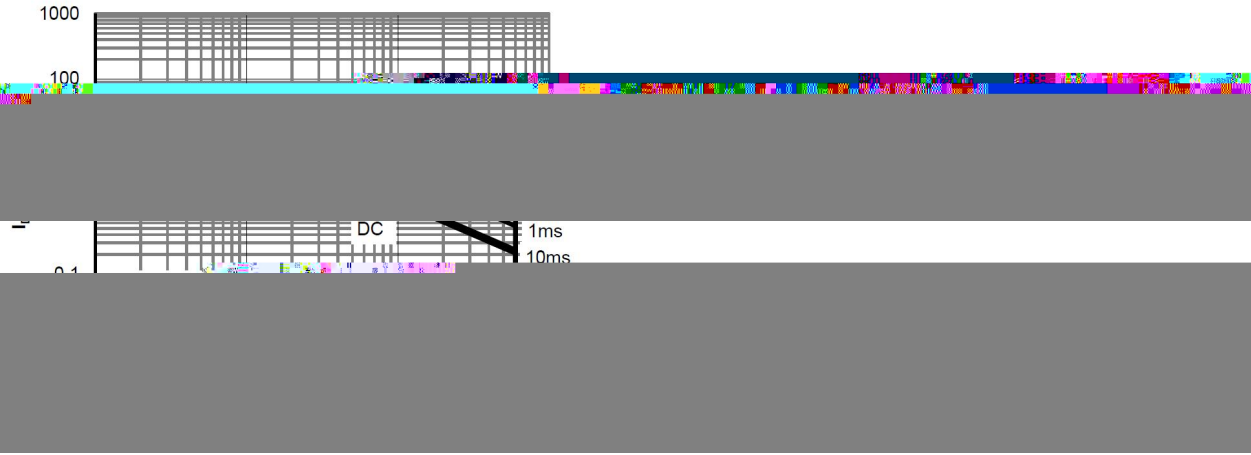
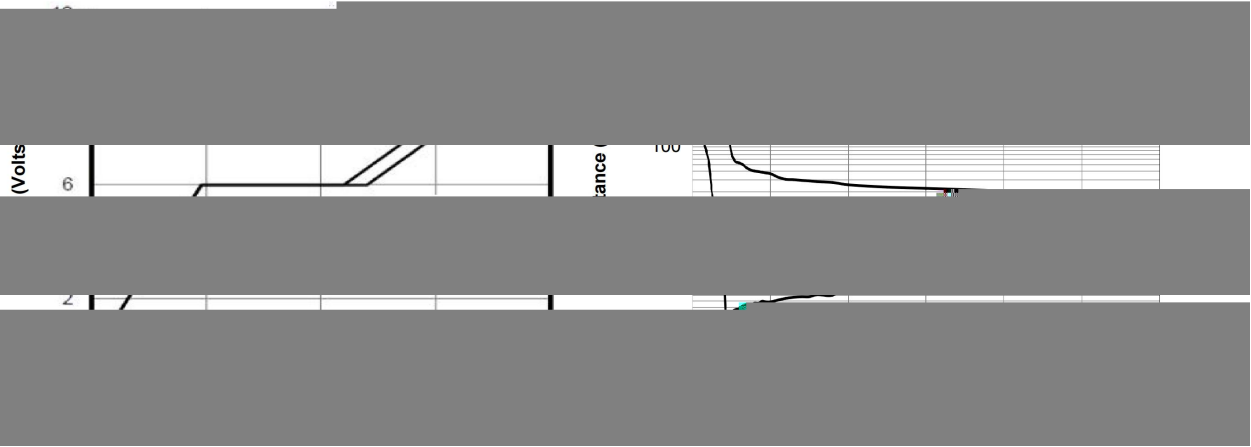
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I_S				11	A
Total Gate Charge	Q_g	$V_{DS}=480V \quad I_D=5.5A$ $V_{GS}=10V$		19.2		nC
Gate-Source Charge	Q_{gs}			3.1		nC
Gate-Drain Charge	Q_{gd}			8.2		nC
Reverse recovery time	T_{rr}	$V_R=400V, I_F=5.5A,$ $dI_F/dt=100A/\mu s$		310		ns
Reverse recovery charge	Q_{rr}			2.8		uC

/ Electrical Characteristic Curve

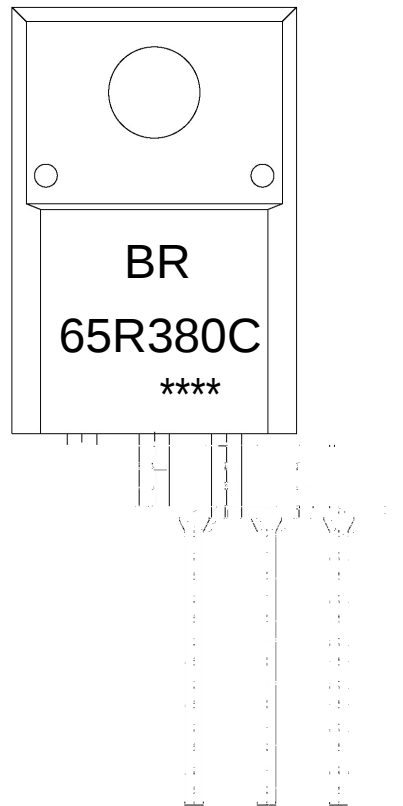


/ Electrical Characteristic Curve



Technical drawing of a mechanical part, showing a top view and a side view. The top view includes dimensions A, R, C1, B, B1, b, and C. The side view includes dimensions E and E1. A table of dimensions in millimeters is provided below the drawing.

Dimensions In Millimeters				Dimensions In Millimeters			
Max	Min	Max	Min	Max	Min	Max	Min
3.8	3.55	0.55	0.75	A	9.7	10.0	10.3
4.0	3.75	0.75	1.00	B	10.0	10.3	10.6
3.1	2.9	0.9	1.1	B1	10.0	10.3	10.6
3.0	2.75	0.75	1.00	B2	10.0	10.3	10.6
3.0	2.75	0.75	1.00	R	10.0	10.3	10.6

/ Marking Instructions

BR

65R380C

Note:

BR: Company Code

65R380C: Product Type

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

BRF65R380C