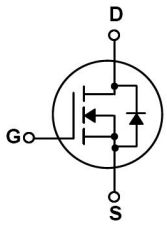
TO-220F N

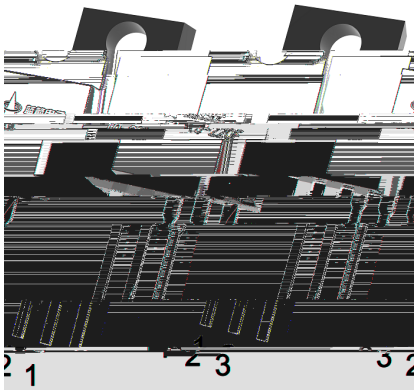
N-CHANNEL 650V Super-Junction Power MOSFET in a TO-220F Plastic Package.

$R_{DS(on)}$×Qg 100% ROHS

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

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





PIN1 G PIN 2 D PIN 3 S

/ Marking

See Marking Instructions. , 7•

BRF65R800T

Rev.A Apr.-2025

DATA SHEET

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I_S				6	A
Total Gate Charge	Q_g	V_{DS}=520V I_D=3A V_{GS}=10V		10.4		nC
Gate-Source Charge	Q_{gs}			2.5		nC
Gate-Drain Charge	Q_{gd}			2.0		nC
Reverse recovery time	T_{rr}	V_R=400V I_F=3A, dI_F/dt=100 A/μs		150		ns
Reverse recovery charge	Q_{rr}			1.06		uC

/ Electrical Characteristic Curve

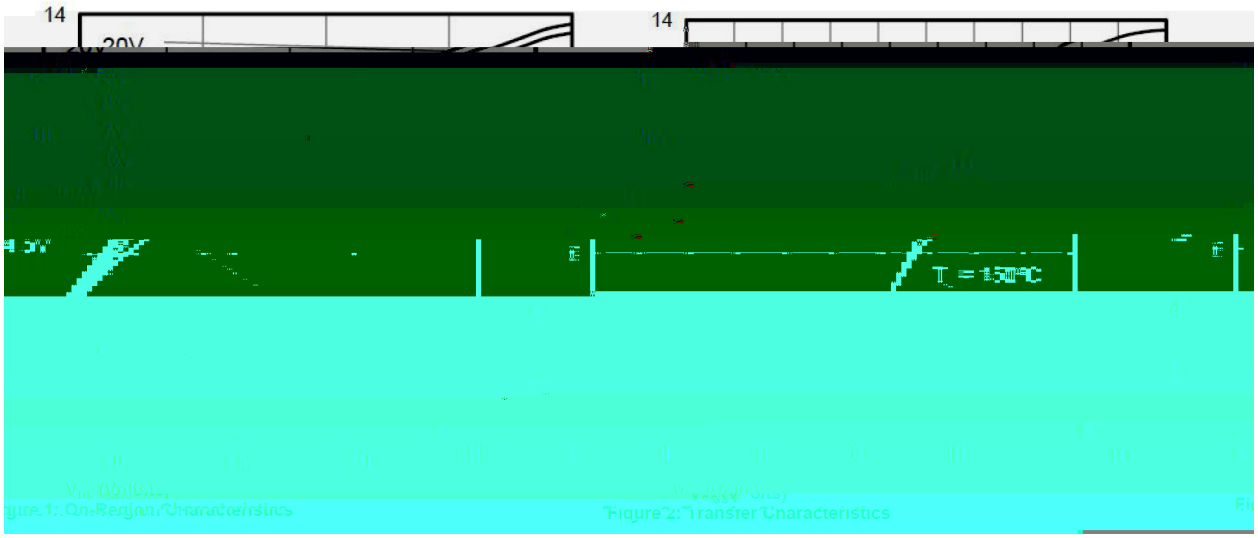
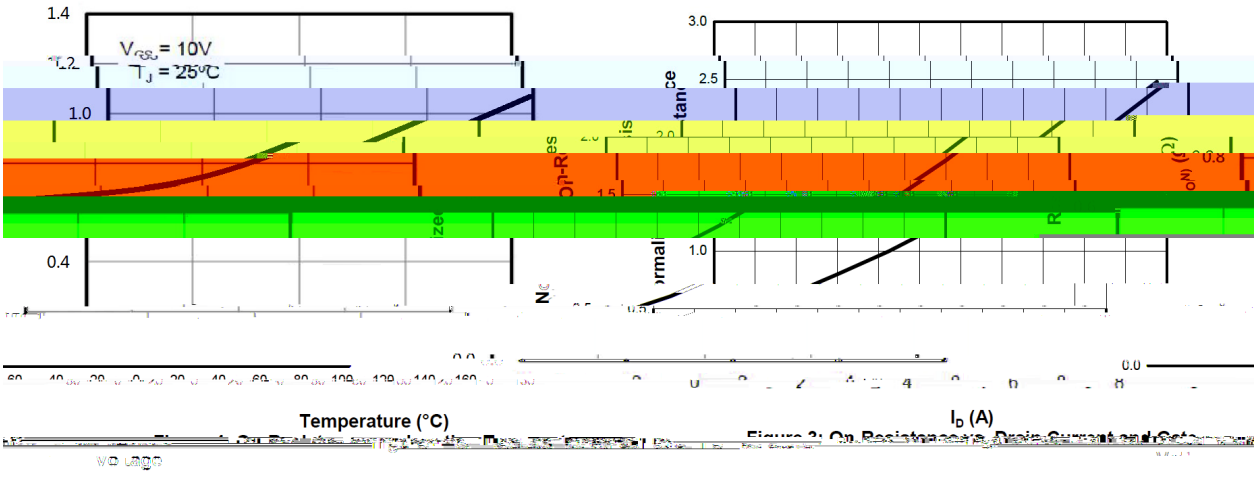
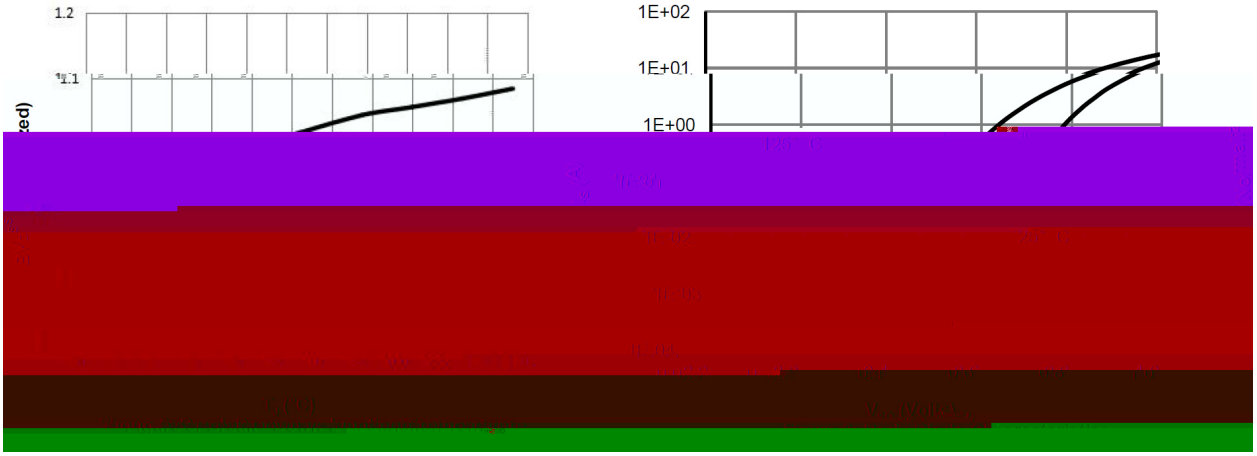


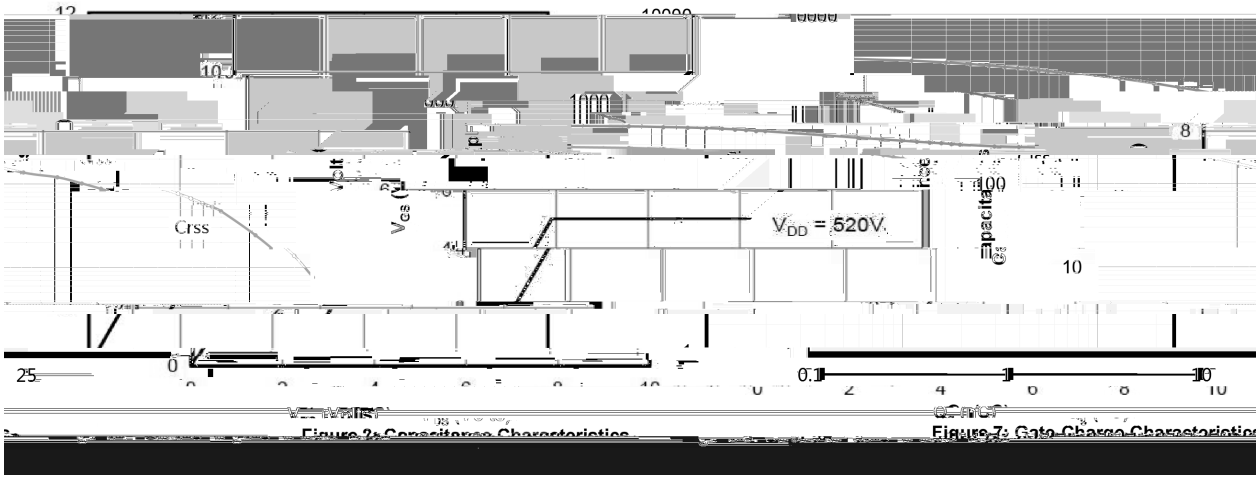
Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics

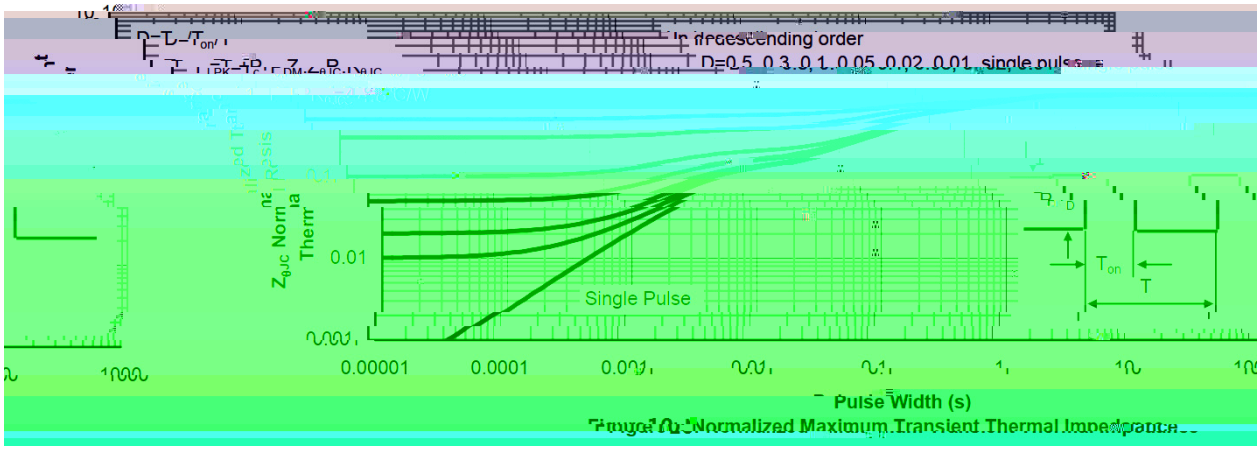




/ Electrical Characteristic Curve







/ Package Dimensions

