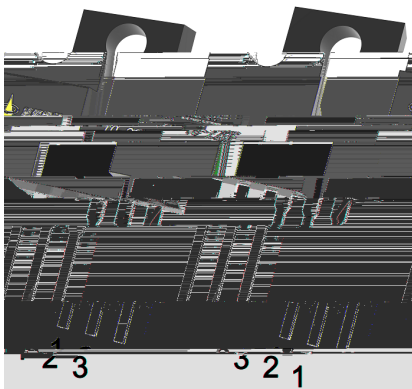
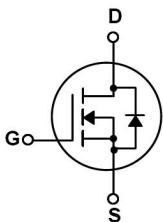


TO-220F N
N-CHANNEL 650V Super-Junction Power MOSFET in a TO-220F Plastic Package.

$R_{DS(on)} \times Q_g$ 100% ROHS
Very low $R_{DS(on)} \times Q_g$, 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

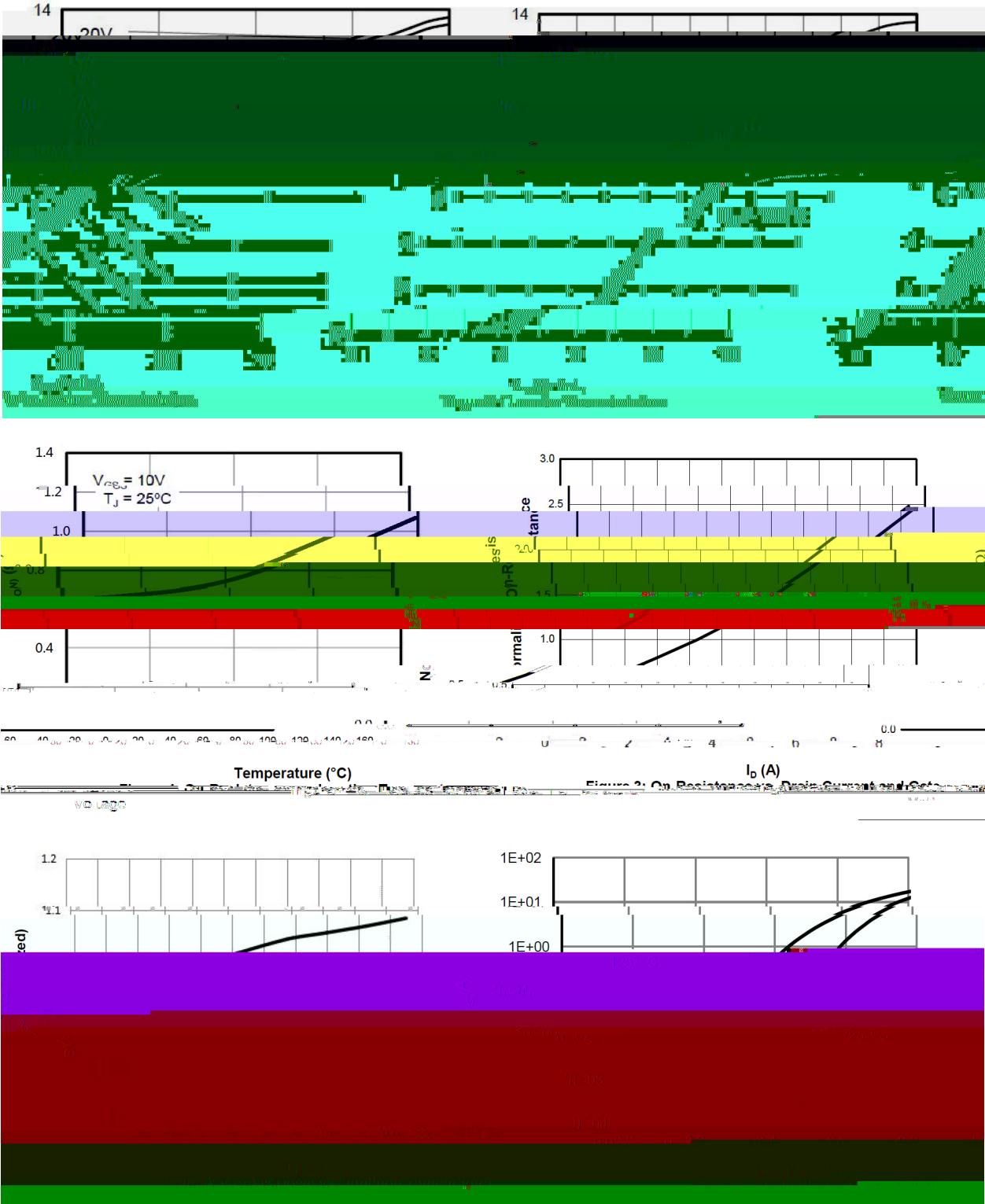
/ Marking

See Marking Instructions. , 7•


/ 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	$V_{DS}=520V \quad I_D=3A$ $V_{GS}=10V$		10.4		nC
Gate-Source Charge	Q_{gs}			2.5		nC
Gate-Drain Charge	Q_{gd}			2.0		nC
Reverse recovery time	T_{rr}	$V_R=400V \quad I_F=3A,$ $dI_F/dt=100 A/\mu s$		150		ns
Reverse recovery charge	Q_{rr}			1.06		uC

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

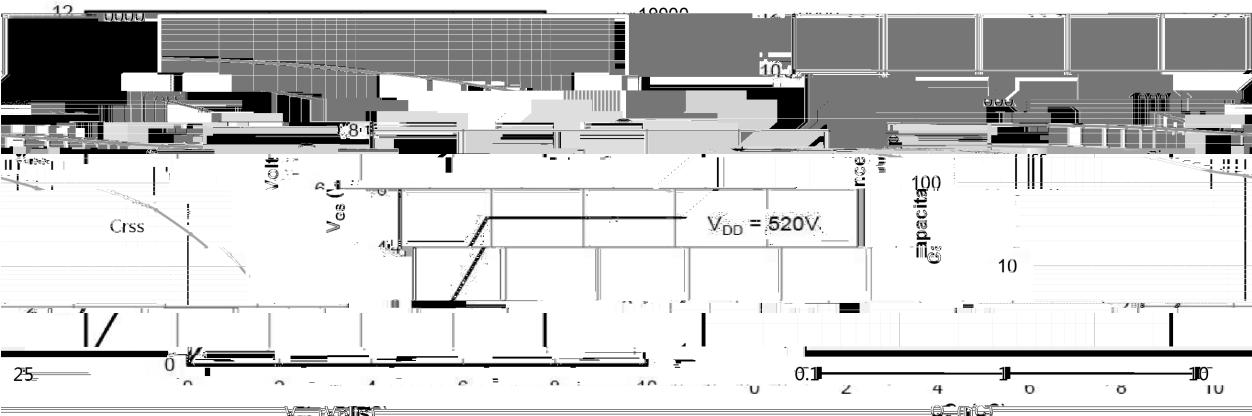
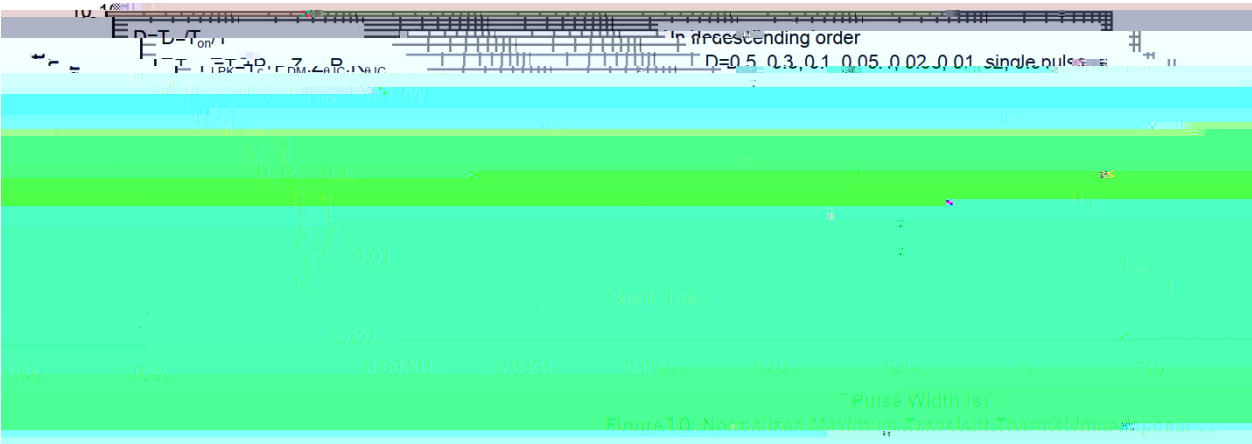
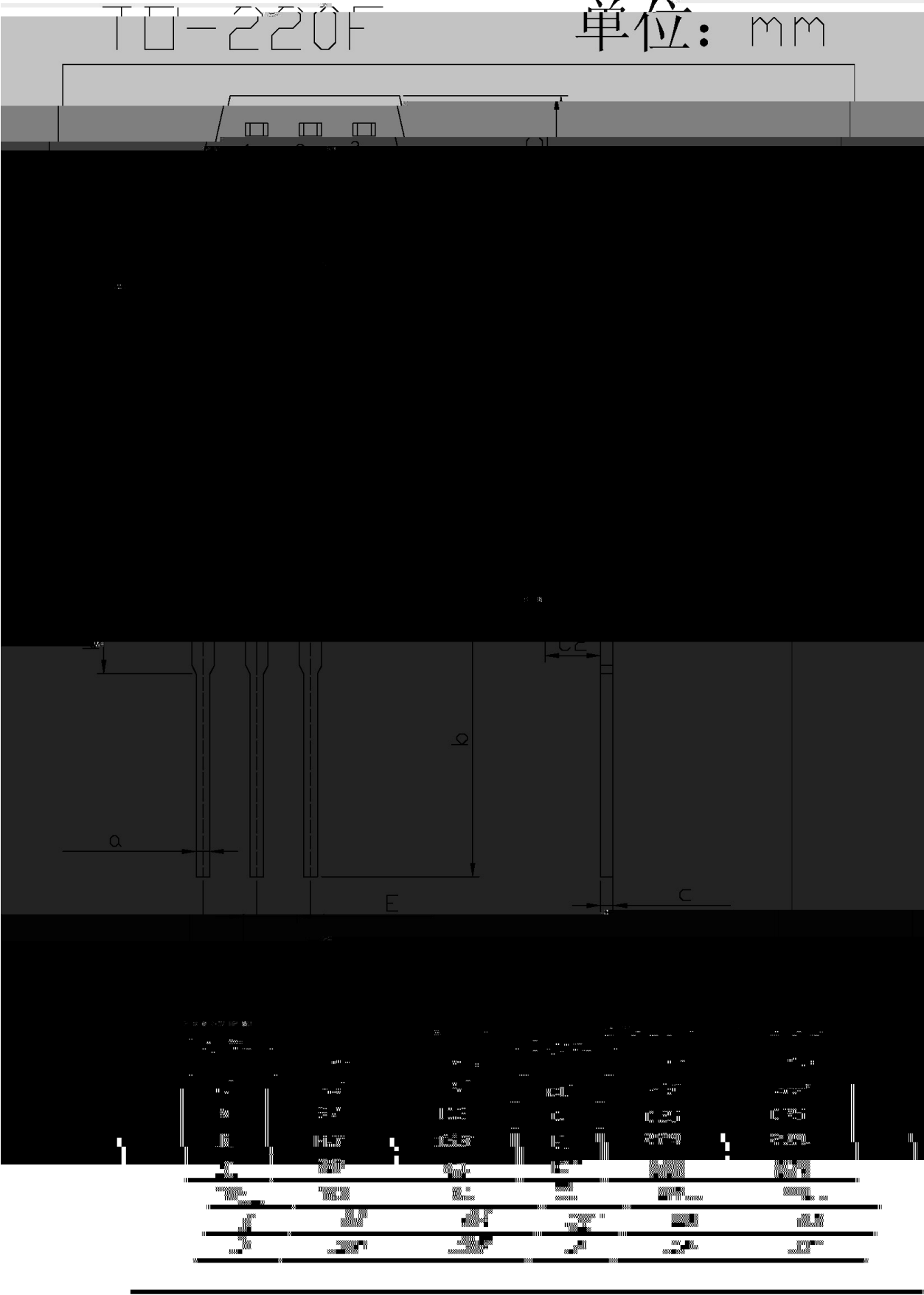


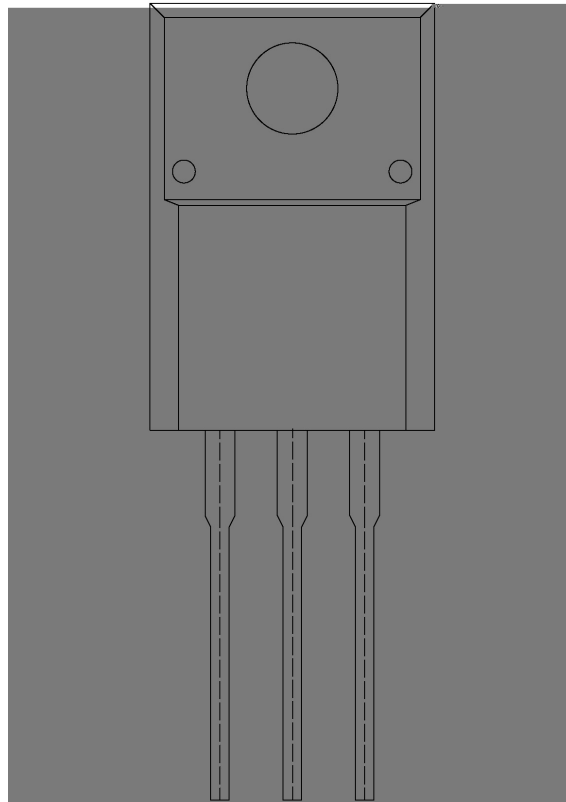
Figure 2: Capacitance Characteristic

Figure 7: Gate Charge Characteristic



/ Package Dimensions





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