/ Descriptions

TO-220 N MOS N-CHANNEL MOSFET in a TO-220 Plastic Package.

/ Features

, , , , 100

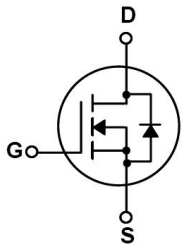
Fast Switching, Low ON Resistance, Low Gate Charge, Low Reverse transfer capacitances,100% Single Pulse avalanche energy Test.

/ Applications

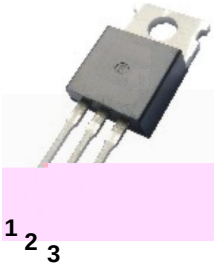
UPS

For UPS, inverters, lightin.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 D PIN 3 S

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

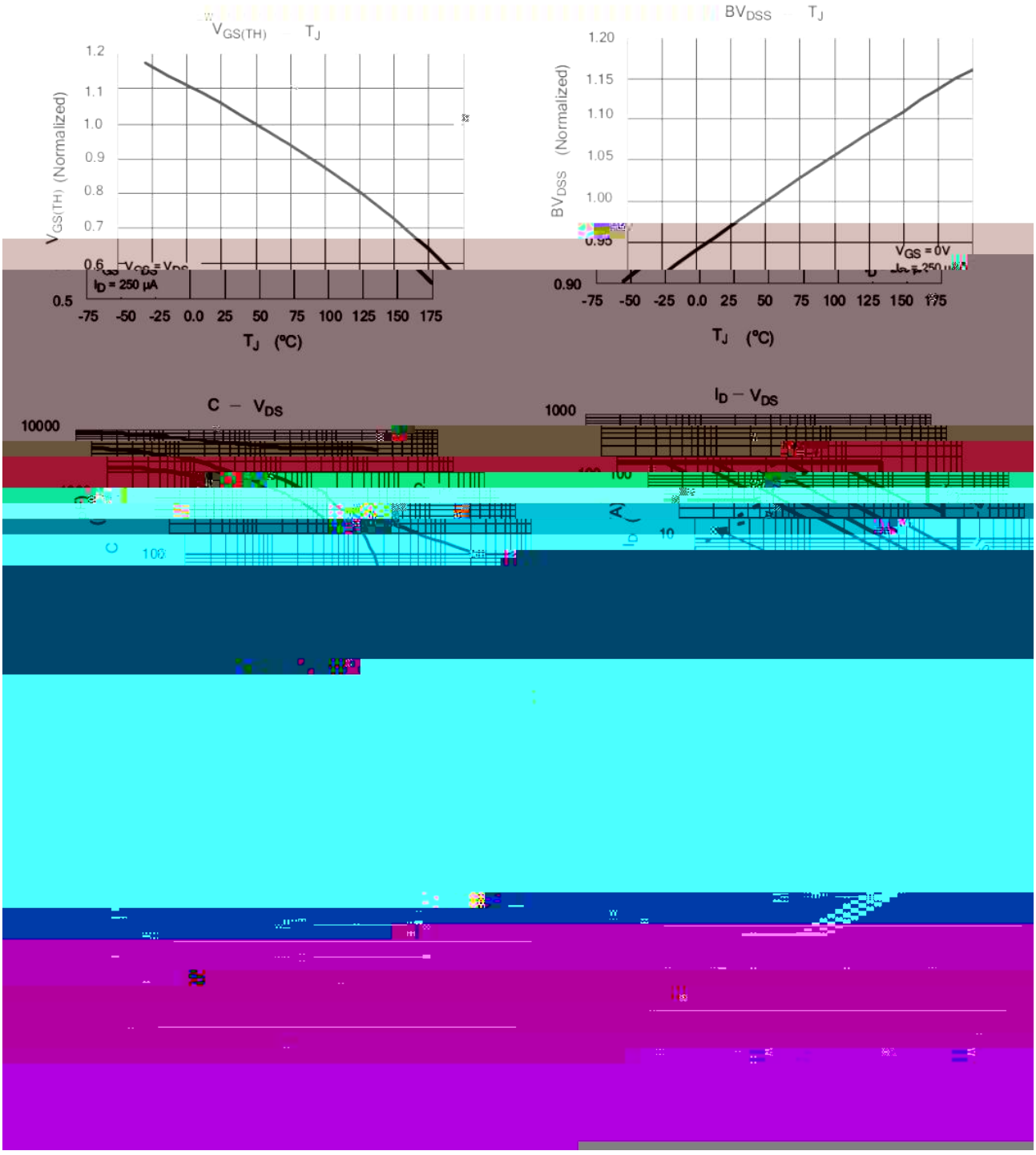
Total Gate Charge	Q_g	I_D=20A V_{DD}=100V V_{GS} = 10V		68		nC
Gate-Source Charge	Q_{gs}			17		
Gate-Drain Charge	Q_{gd}			16		
Continuous Source Current	I_S				40	A
Maximum Pulsed Current	I_{SM}				160	A
Diode Forward Voltage	V_{SD}	I_S=40A V_{GS}=0V			1.5	V
Reverse Recovery Time	t_{rr}	I_S=20A T_j=25 d_{IF}/d_t=100A/us,V_{GS}=0V		250		ns
Reverse Recovery Charge	Q_{rr}			1.5		μC

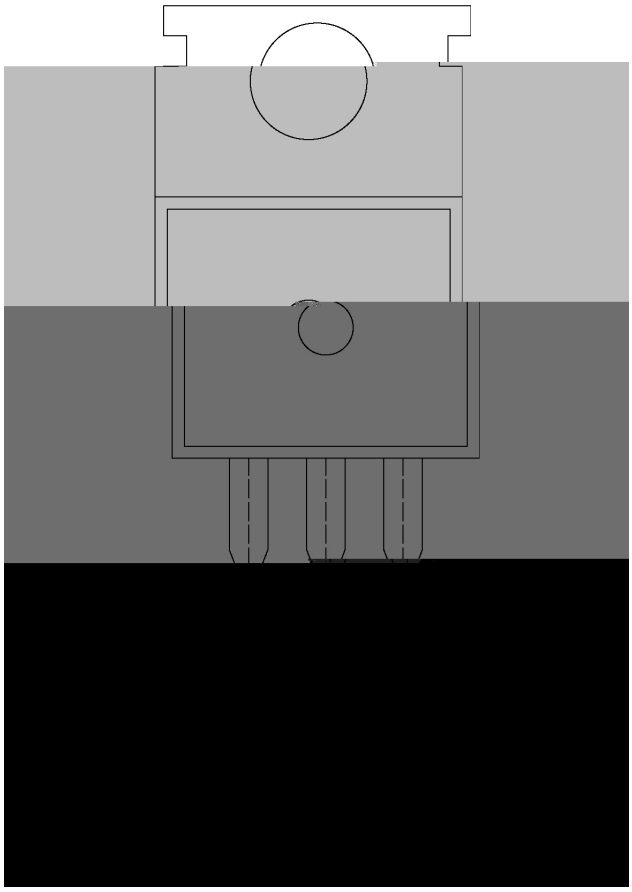
Notes:

a1 L=1.0mH, I_D=31.6A, Start T_J=25 a2 I_{SD} =10A,di/dt ≤100A/us,V_{DD}≤B_{VDS}, Start T_J=25

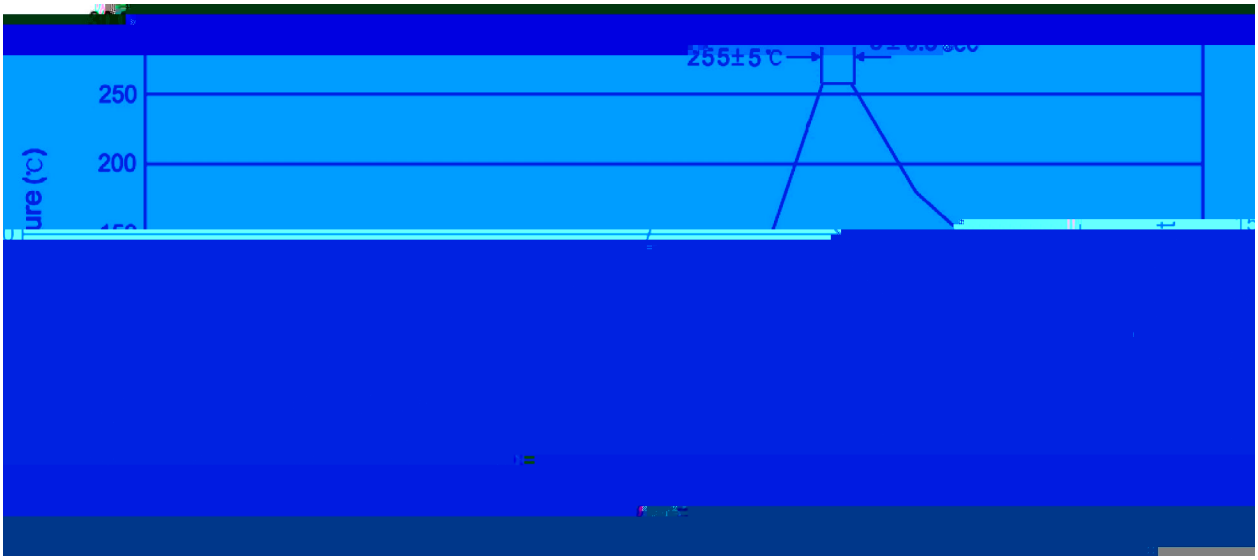
/ Electrical Characteristic Curve

/ Electrical Characteristic Curve





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



					Note:
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.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm^3)

/ TUBE

Package Type	Units					Dimension		(unit mm^3)

/ Notices