

**IGBT STGW30NC120HD**  
was actually used for both  
transistors here

This circuit unfortunately only "spikes" the input with high voltage at switch ON.  
For a more rigorous test, a second switch is needed, and it needs to switch off the  
mains just before a second switch switches in the LC resonator...as in the other  
simulation. This would ensure a better test as then the series protection FET in  
the product will be ON at the time that the spike voltage is applied.

