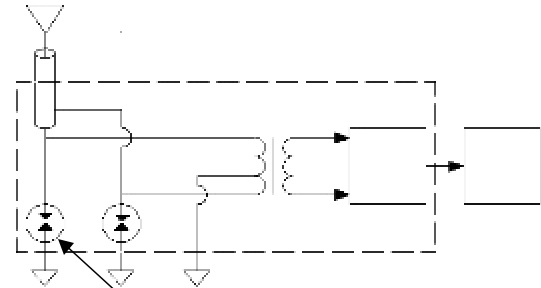


Applications for TV and Allied Equipment

Set-top box/ Tuner Circuit

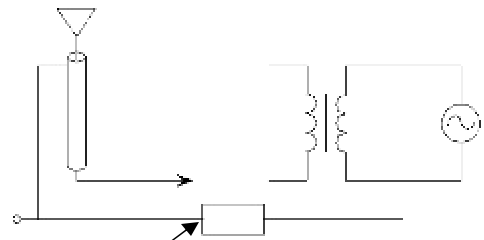
In this application the PSA can be used to protect sensitive semiconductors from low-energy surges from the vicinity of the antenna or from ESD. In both cases PTA/PTB 201M can be used to provide good protection even at low pulse amplitudes.



PTA/PTB 201M

Antenna – AC Ground Separation

Tuner circuits in CTVs and Set-top boxes often fail due to delayed or late transmission of Surges on Antenna lines to the AC ground (which usually has low impedance). Many designers prefer to use Air-gaps built on the PCB to mitigate this problem – but Air-gaps permit a very high potential before they energize – the HVM modules can be used effectively to control this failure mode.



HVM BZR 302M for 125 VAC
HVM BZR 362M for 240 VAC

CRT protection with PSA

High voltage spikes returning from the CRT display are frequently known to damage controlling circuits including expensive video amplifiers – this problem is further compounded by the use of higher energization voltage in Flat CRTs. The PSA can provide an excellent, long-lasting and cost effective solution.

