

# Snubber Circuits: Theory, Design and Application

Philip C. Todd

## Introduction

Snubbers are an essential part of power electronics. Snubbers are small networks of parts in the power switching circuits whose function is to control the effects of circuit inductance.

Snubbers enhance the performance of the switching circuits and result in higher reliability, higher efficiency, higher switching frequency, smaller size, lower weight, and lower EMI. The basic intent of a snubber is to absorb energy from the reactive elements in the circuit. The benefits of this may include circuit clamping, controlling the rate of change of voltage or current, or clamping voltage overshoot. In performing these functions a snubber limits the amount of stress which the switch must endure and that increases the reliability of the switch. When a snubber is properly designed and implemented the switch will have lower average power dissipation, much lower peak power dissipation, lower peak operating voltage and lower peak operating current. This article describes some of the various types of snubbers, when they are used, how they function, how they are designed and what their limitations are.

Snubbers may be either passive or active networks. This article is limited to the main types of passive snubbers. Passive snubber network elements are limited to resistors, capacitors, inductors and diodes. Active snubbers include transistors or other active devices, often used a significant amount of extra circuitry and introduce another level of parasitics which must be dealt with (usually with a passive snubber). However, active snubbers are appropriate in some applications. A good example of an active snub is what you would like to say to your boss when he or she decides not to give you a raise.

## Passive Snubber Types

The basic function of a snubber is to absorb energy from the inductance in the power circuit. The first classification of snubber circuits is whether they absorb energy by controlling a voltage or a current. A capacitor placed in parallel with other circuit elements will control the voltage across those elements. An inductor placed in series with other circuit elements will control the current through those elements. Figure 1 shows this concept. A voltage snubber (Fig. 1a) has energy storage capacitors in it and a current snubber (Fig. 1b) has inductors for energy storage. The networks associated with the inductive and capacitive stores in Figure 1 determine how energy is passed to the storage element and how the energy is removed from it.

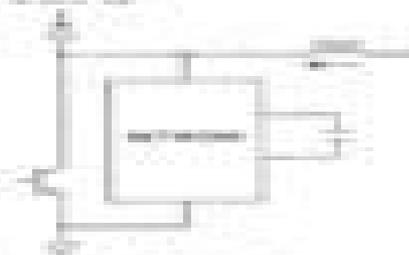


Fig. 1a

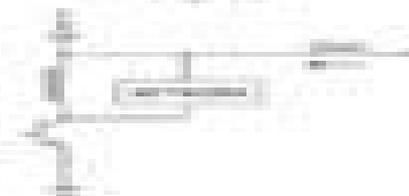


Fig. 1b

All of the other classifications of snubbers refer to the way in which the energy is transferred to and from the snubber. If the energy stored in the snubber is dissipated in a resistor the snubber is called a dissipative type. If the energy is moved back to the input or ahead to the output the snubber is called a non-dissipative type though there may be some small losses. A snubber is called an potential or non-potential depending on:

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