

# Diode snubber: $k=1$ or moderates ring

## Secondary Ringing Solution

Turn off of diode is also  $C_o$

a source of ringing

1.  $Q_{rr}$ ,  $t_{rr}$  of diode

Figure 5a: Resistor snubber added to the flyback secondary

2.  $C_{(off)}$  appears when (diode off)

3.  $L_e$  transferred to secondary



No parasitics



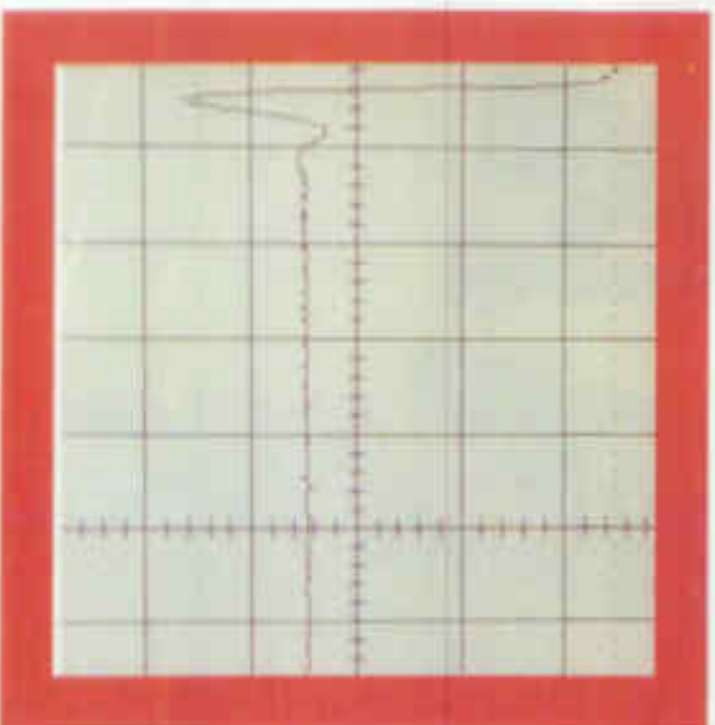
Ch 29

without snubber

① peaks kill diode  
② 200 kHz  
void compliance



Figure 5b:  
Secondary diode  
waveform with-  
out snubber.  
Ringing frequen-  
cy = 24 MHz



*Figure 5c: Secondary diode  
waveform with snubber*