

# UF3C120150K3S Obsolescence

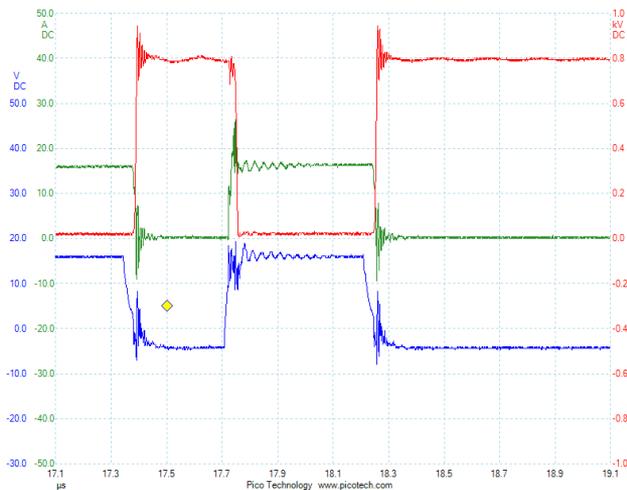
Alternate Parts



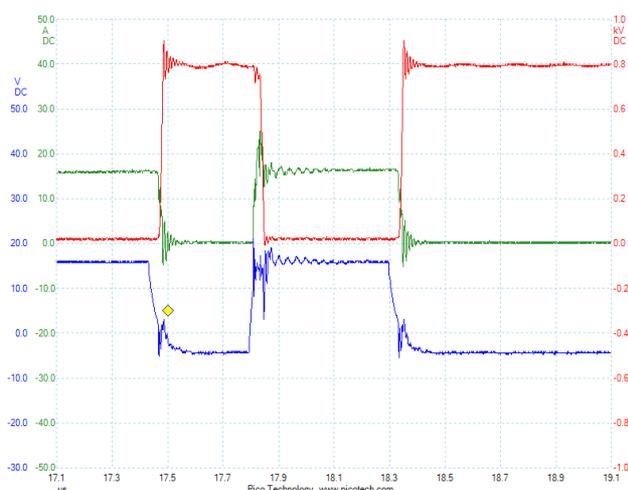
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The part was subjected to double pulse testing and was found to ring at turn-on and turn-off, regardless of snubber parameters.

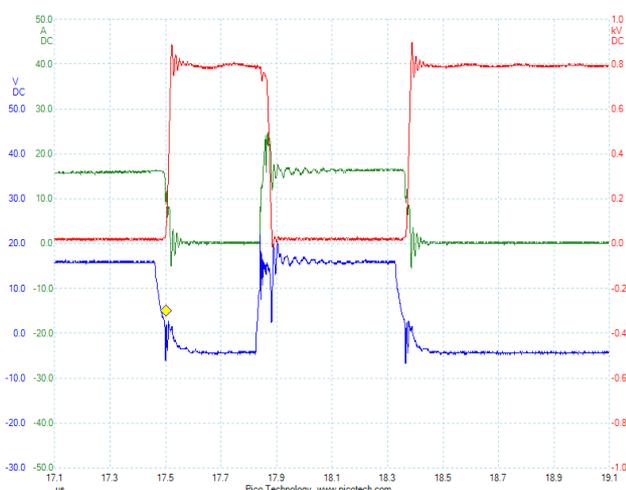
Measured switching waveforms at 800V-16A, RT



Without device RC snubber  
 $E_{on} = 307\mu\text{J}$   
 $E_{off} = 31\mu\text{J}$



With device RC snubber:  $C_s=47\text{pF}$ ,  $R_s = 5\text{ohm}$   
 $E_{on} = 354\mu\text{J}$   
 $E_{off} = 44\mu\text{J}$

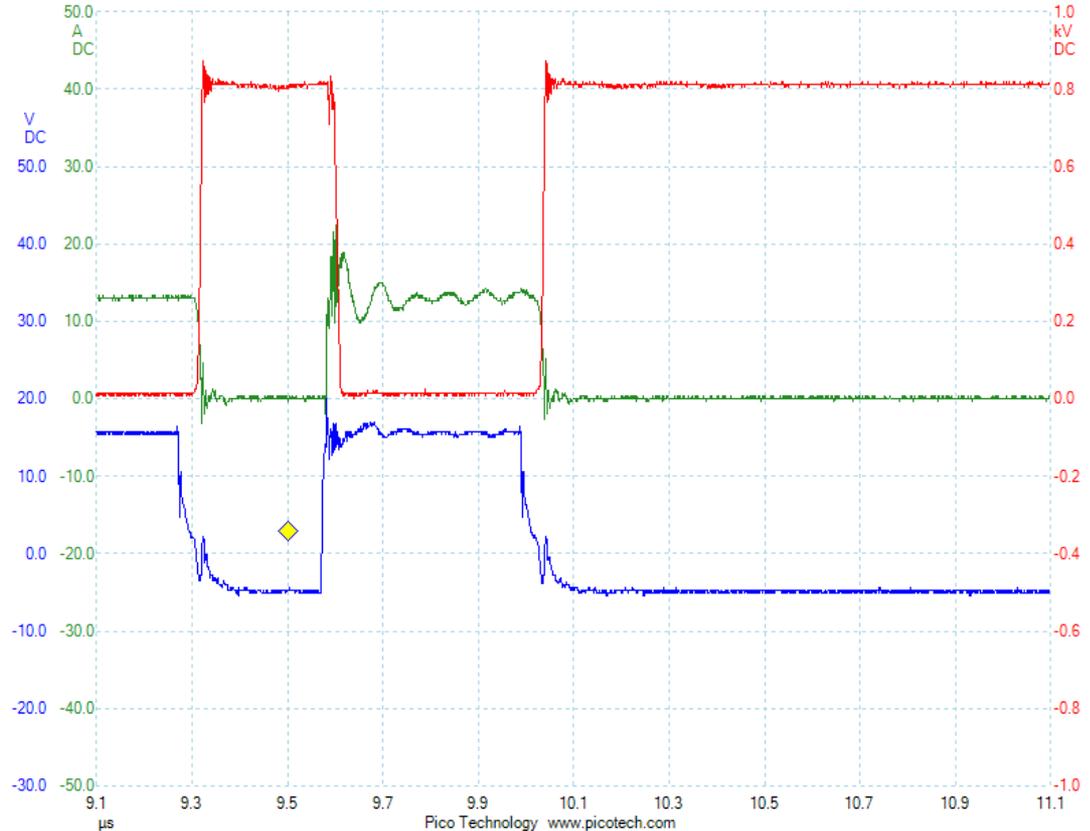


With device RC snubber:  $C_s=94\text{pF}$ ,  $R_s = 5\text{ohm}$   
 $E_{on} = 390\mu\text{J}$   
 $E_{off} = 56\mu\text{J}$

# Replacement Part Option 1: UJ3C120150K3S

Measured switching waveforms at 800V-13A, RT, with  $R_{g,on} = 1\Omega$ , and  $R_{g,off} = 20\Omega$

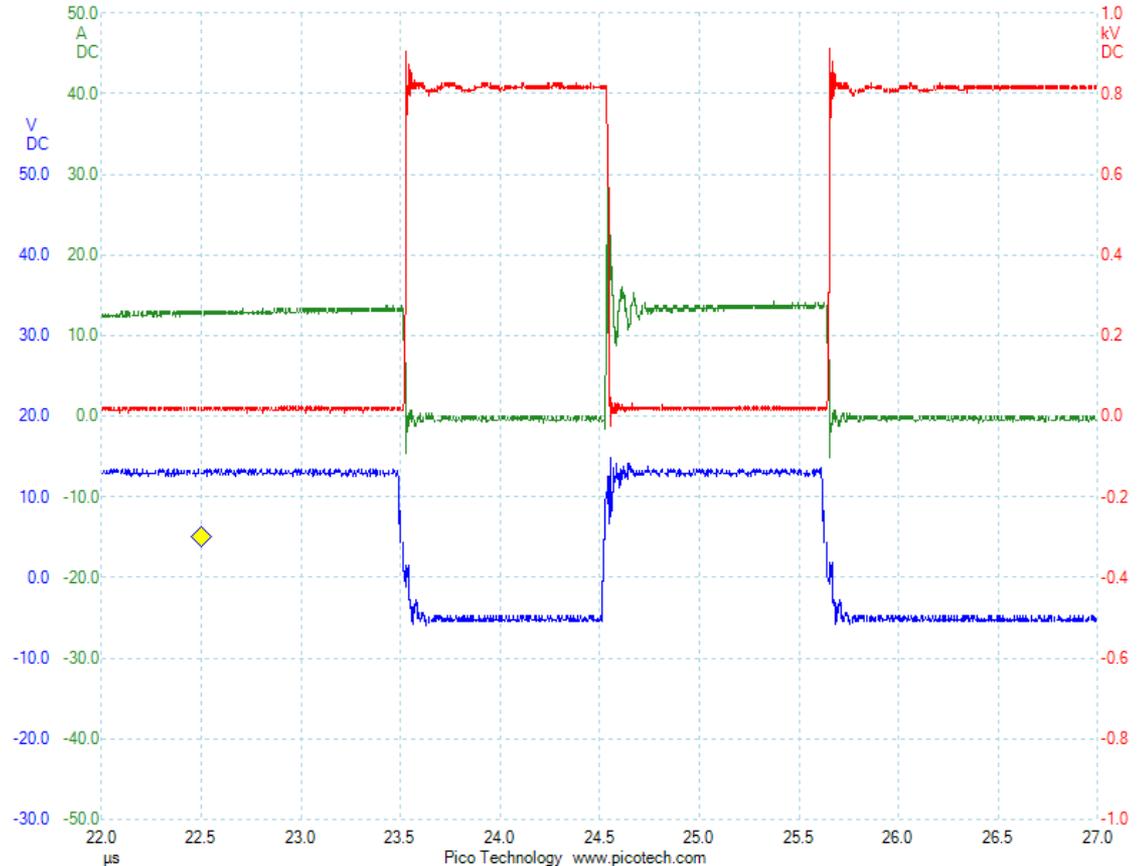
The Turn-on and Turn-off ringing can be reduced with the correct snubber parameters.



# Replacement Part Option 2: UF3C120150K4S

Measured switching waveforms at 800V-13A, RT, with  $R_{g,on} = 15\Omega$ , and  $R_{g,off} = 22\Omega$

The Turn-on and Turn-off ringing can be reduced with the correct snubber parameters.



# Replacement Part Option 3: UF3C120150B7S

Measured switching waveforms at 800V-13A, RT, with  $R_{g,on} = 15\Omega$ , and  $R_{g,off} = 20\Omega$

The Turn-on and Turn-off ringing can be reduced with the correct snubber parameters.

