

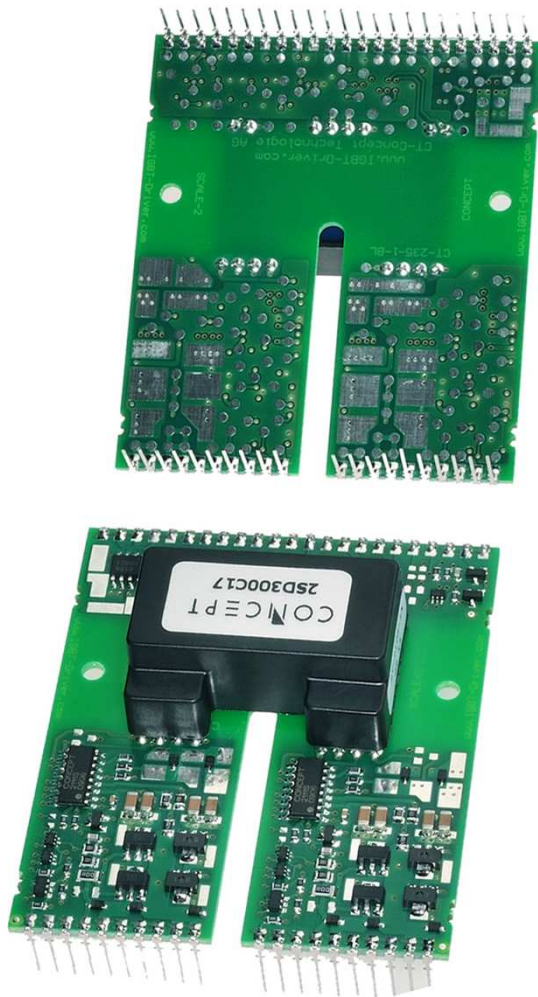
## Measurement Comparison 2SD300C17 via 2ED300C17-ST

by Michael Hornkamp

CT-Concept Technologie AG - Switzerland

## Comparison CONCEPT 2SD300C17 via IFX 2ED300C17-ST

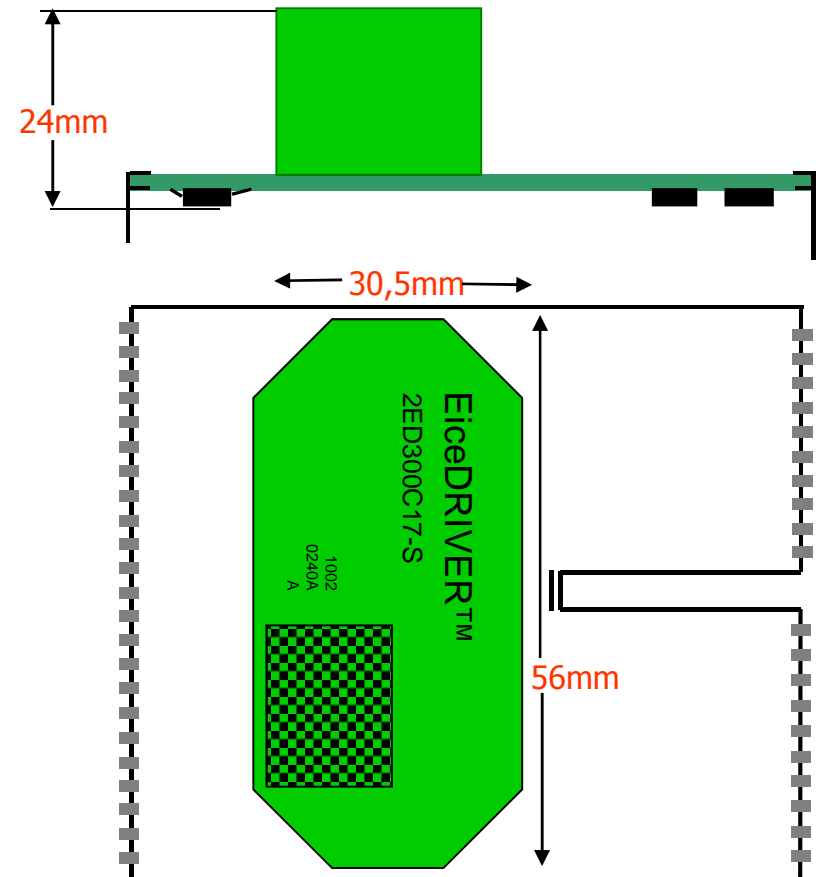
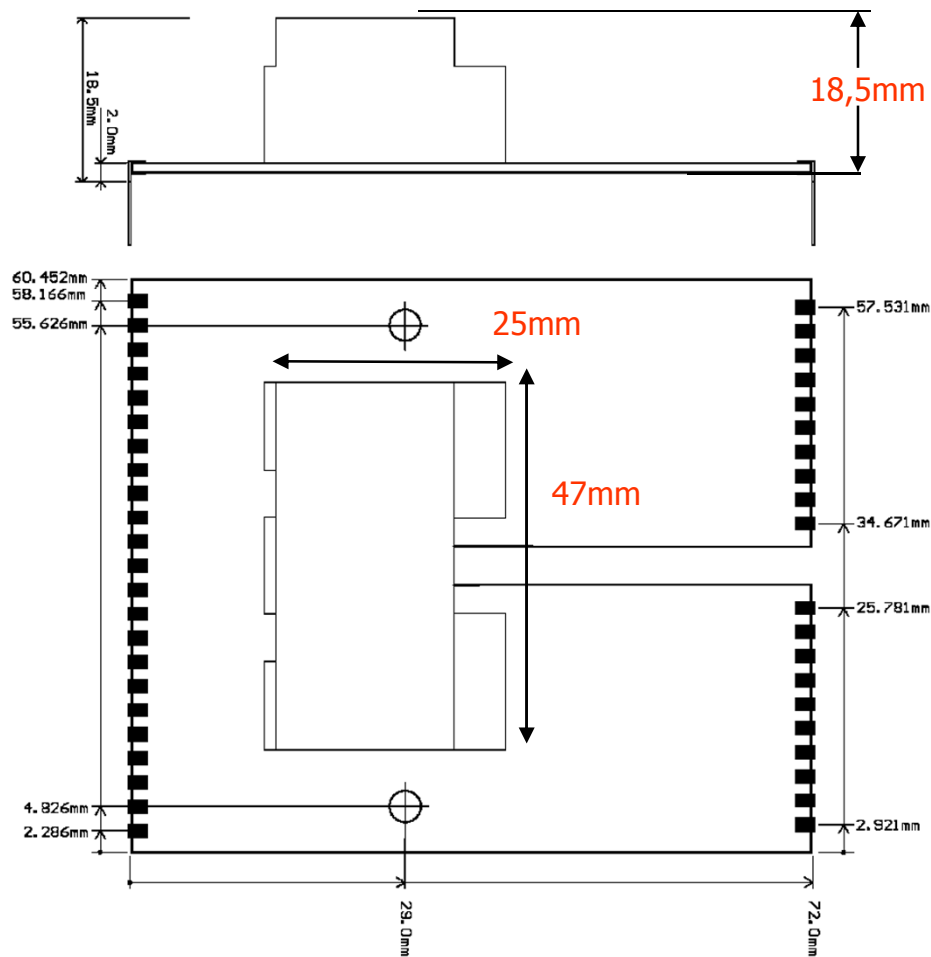
CONCEPT EiceMELTER



IFX EiceDRIVER™



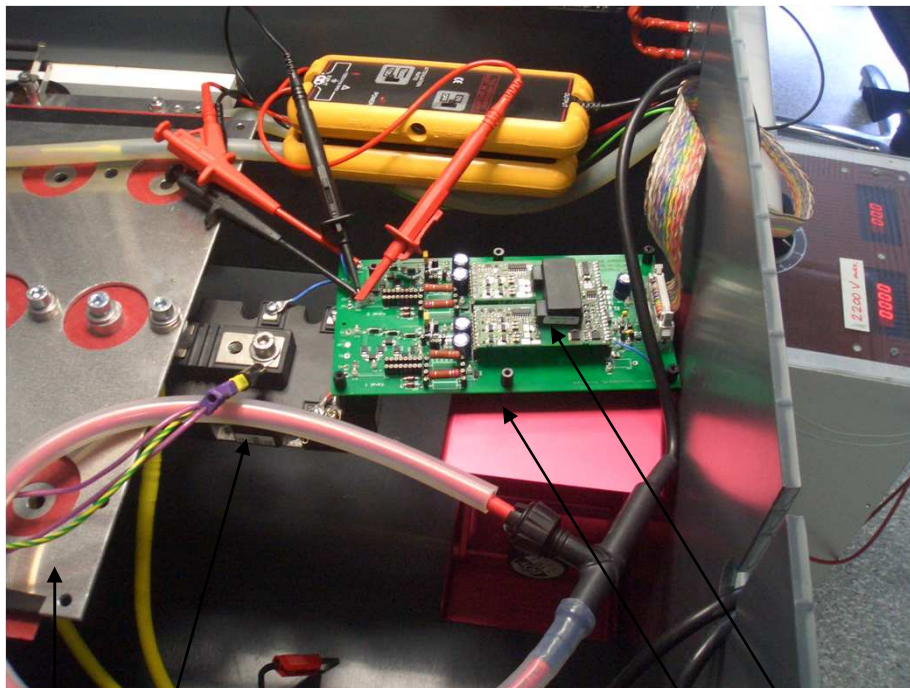
## Dimension 2SD300C17 compare to 2ED300C17-S



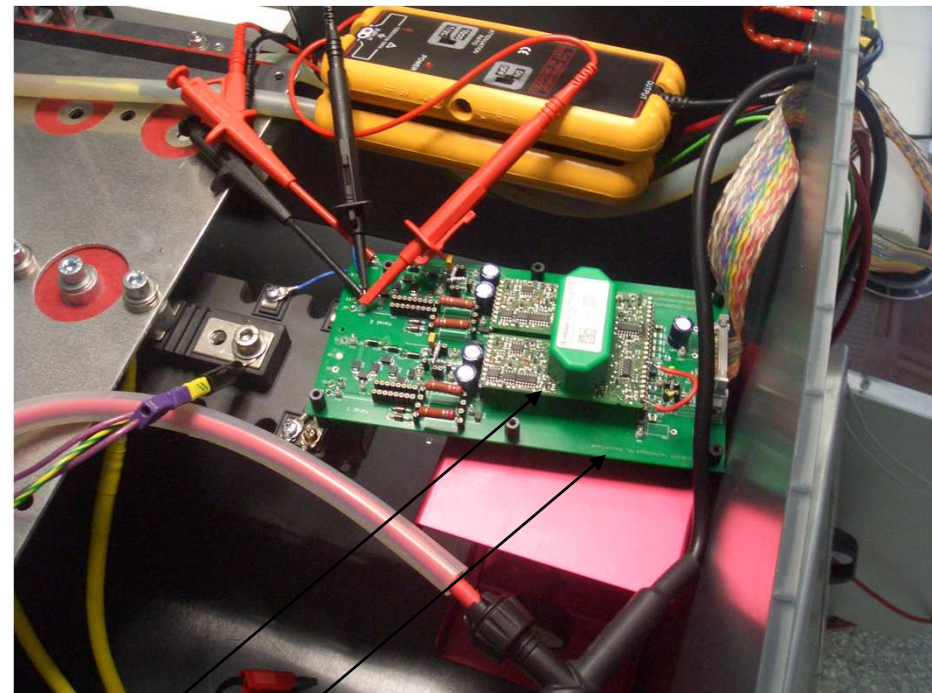
## Measurement Setup

► Pictures show high side measurement.

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PrimePACK™ FF1000R17IP4

Laminated DC-Bus  
With capacitor bank

IGBT gate driver

CONCEPT adapter board

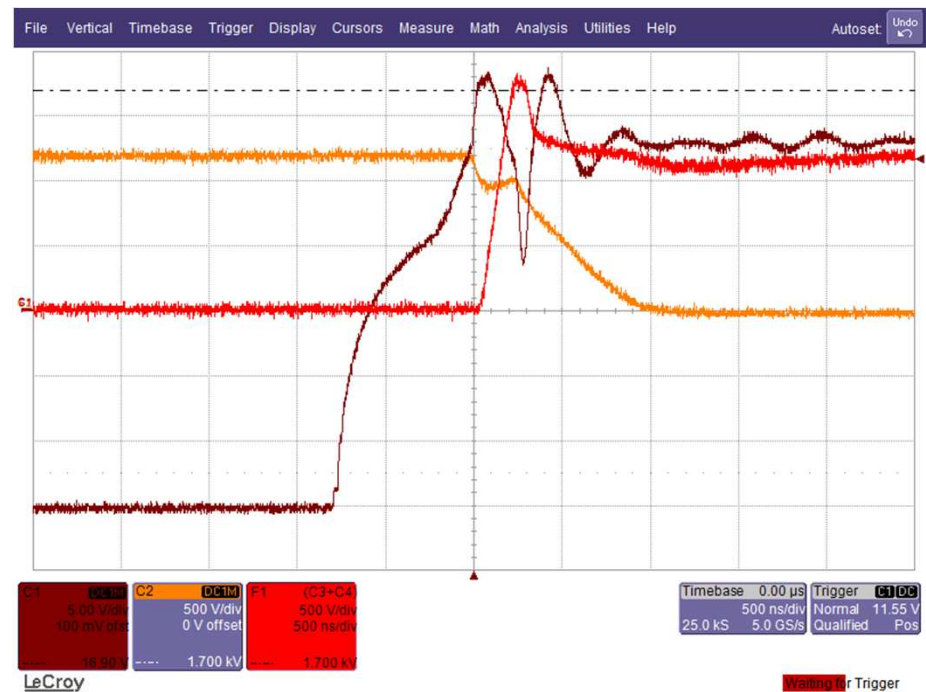
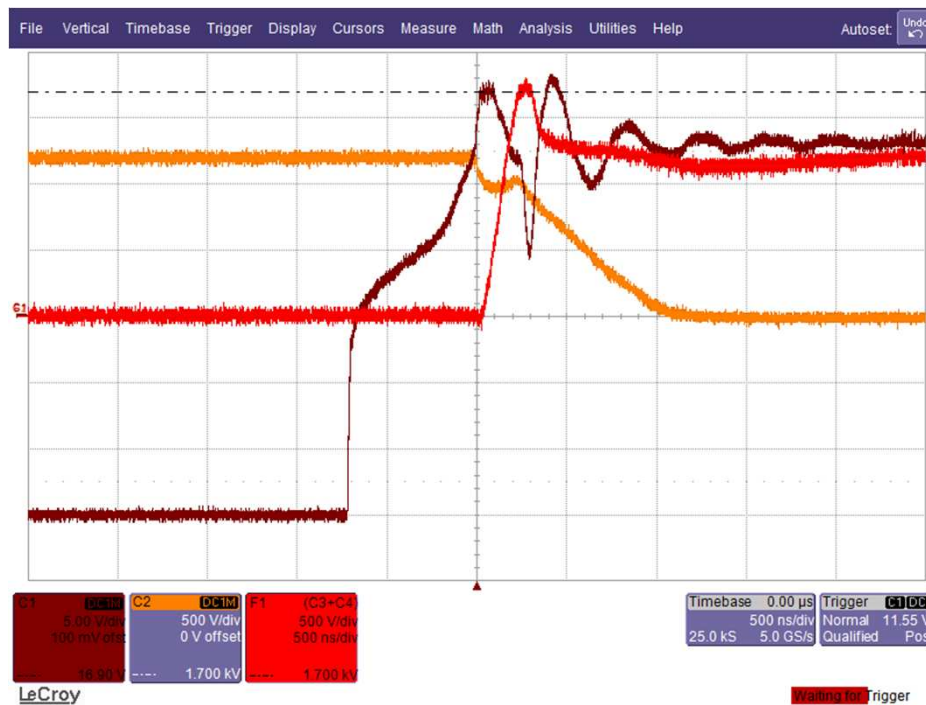


## Turn on Low Side with PrimePACK™ FF1000R17IP4

▲ V<sub>dc</sub>=1200V I<sub>c</sub>=1000A @25 C

CONCEPT EiceMELTER

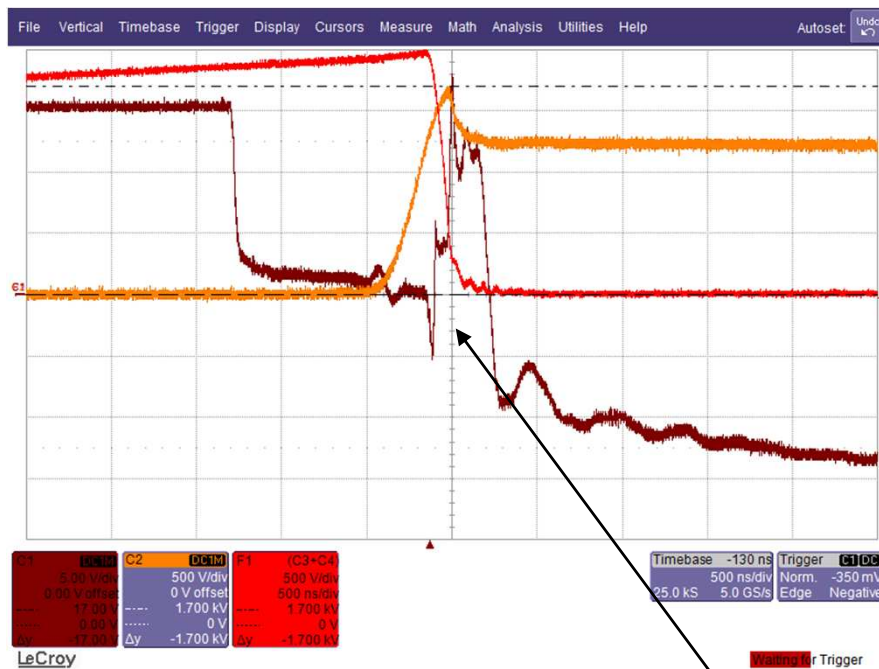
IFX EiceDRIVER



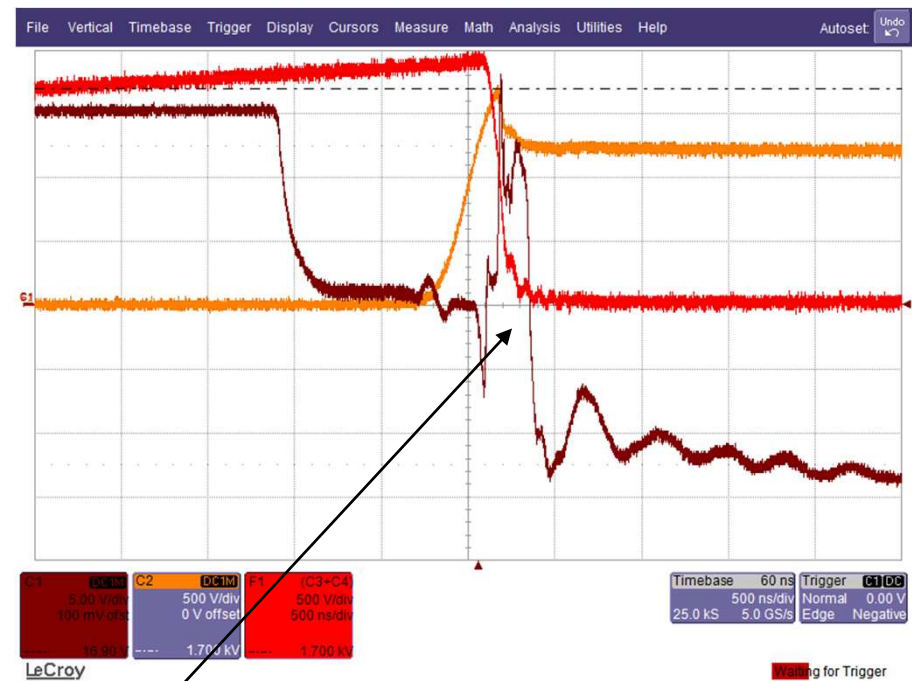
## Turn Off Low Side with PrimePACK™ FF1000R17IP4

▲ Vdc=1200V Ic=2000A @25 C

CONCEPT EiceMELTER



IFX EiceDRIVER



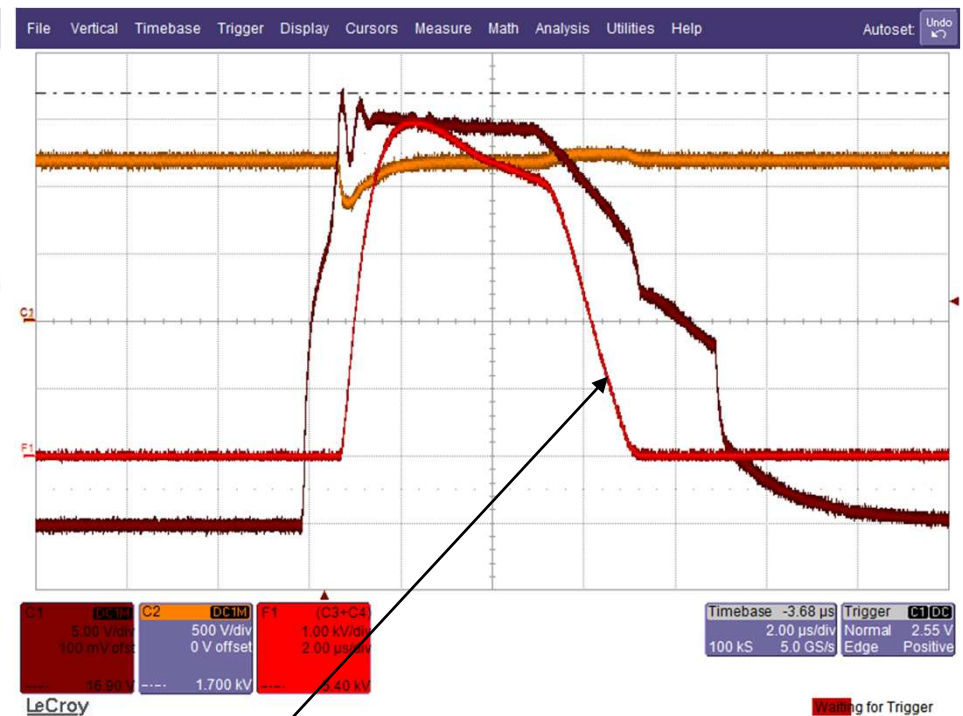
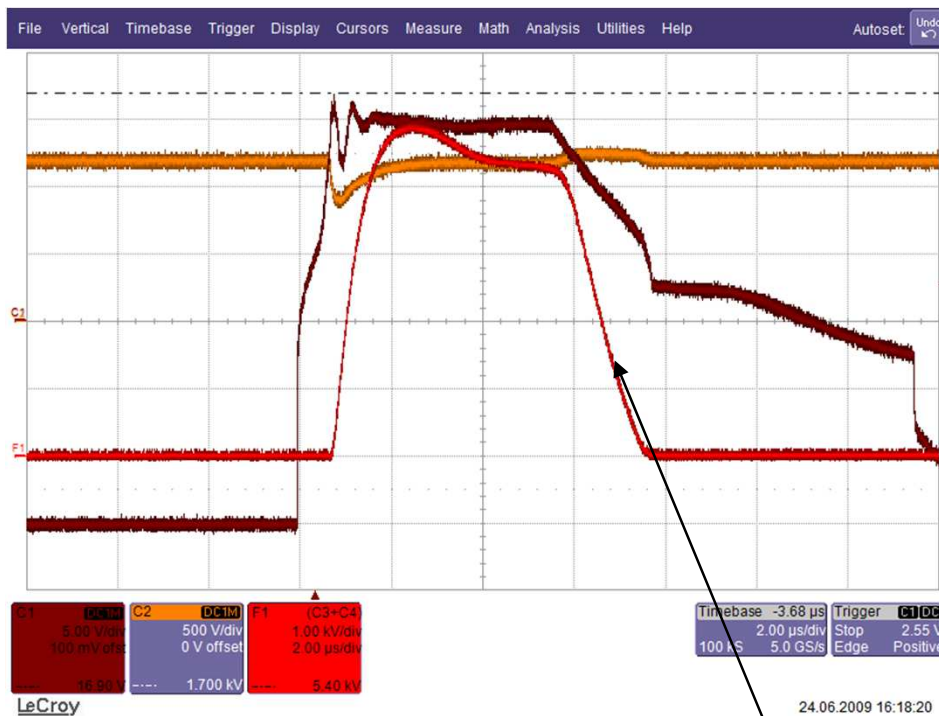
Active clamping

## Short Circuit Low Side with PrimePACK™ FF1000R17IP4

▶ Vdc=1200V Ic=4000A @25 C

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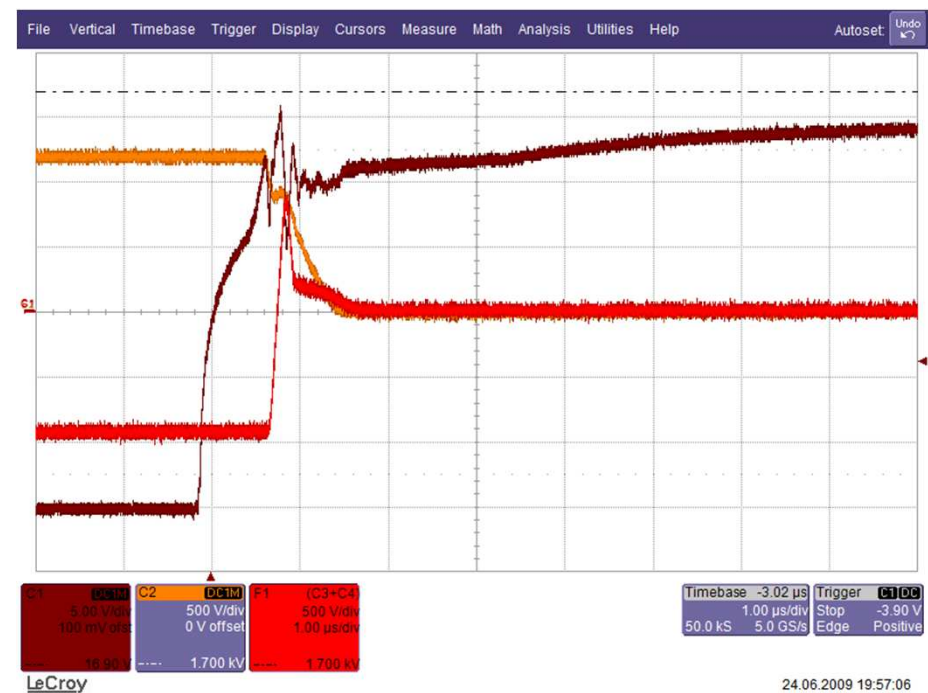
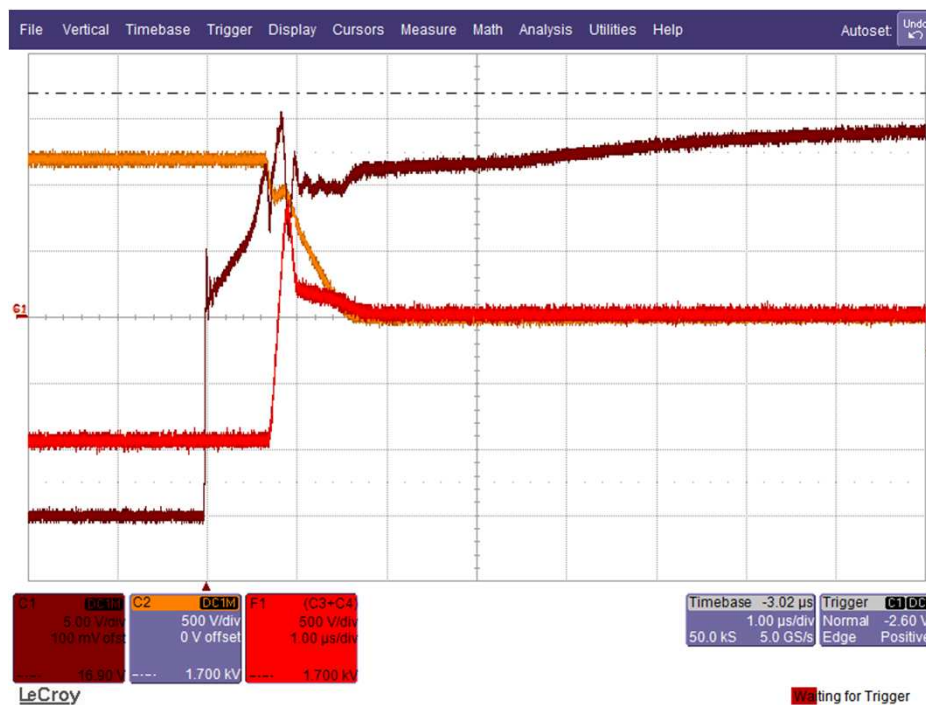
Vce monitoring with soft shut down

## Turn on High Side with PrimePACK™ FF1000R17IP4

▶ V<sub>dc</sub>=1200V I<sub>c</sub>=1000A @25 C

CONCEPT EiceMELTER

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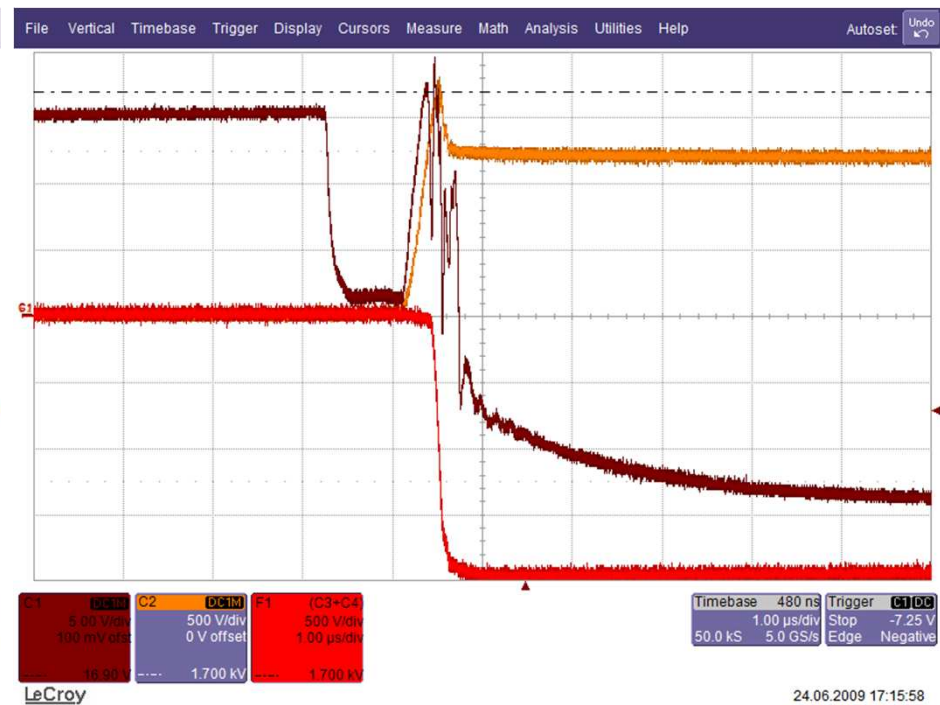
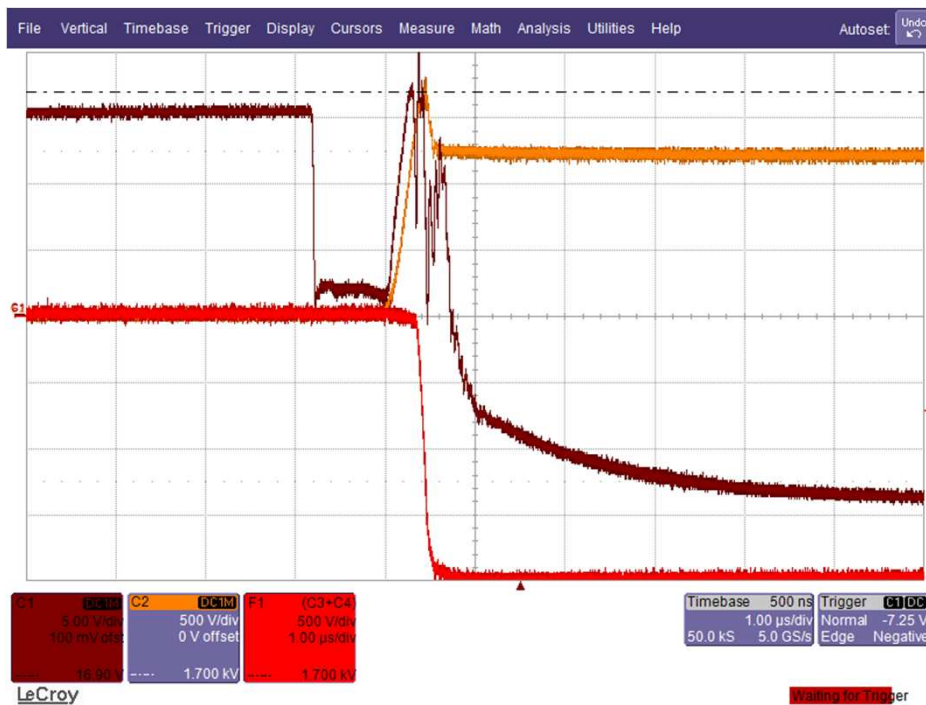


## Turn Off High Side with PrimePACK™ FF1000R17IP4

▲ Vdc=1200V Ic=2000A @25 C

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# Short Circuit High Side with PrimePACK™ FF1000R17IP4

▶ V<sub>dc</sub>=1200V I<sub>c</sub>=4000A @25 C

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