

# A-2. PFC BCM Diode-Bridge-Less $V_{in}=200V$ $I_{in}=2.5A$

**Input :**

$V_{in}=200V_{ac}$   $I_{in}=2.5A_{ac}$   
 $f_{ps}=50HZ$

**Output :  $V_o=500V_{dc}$**

**GD-IC : BM61S41RFV**

**Gate Drive :  $V_d=18V$**

$R_{source}=5\Omega$   
 $R_{sink}=2\Omega$

**Q1,Q2 :**  
**SCT2450KE**  
**SiC MOSFET (1200V 10A)**

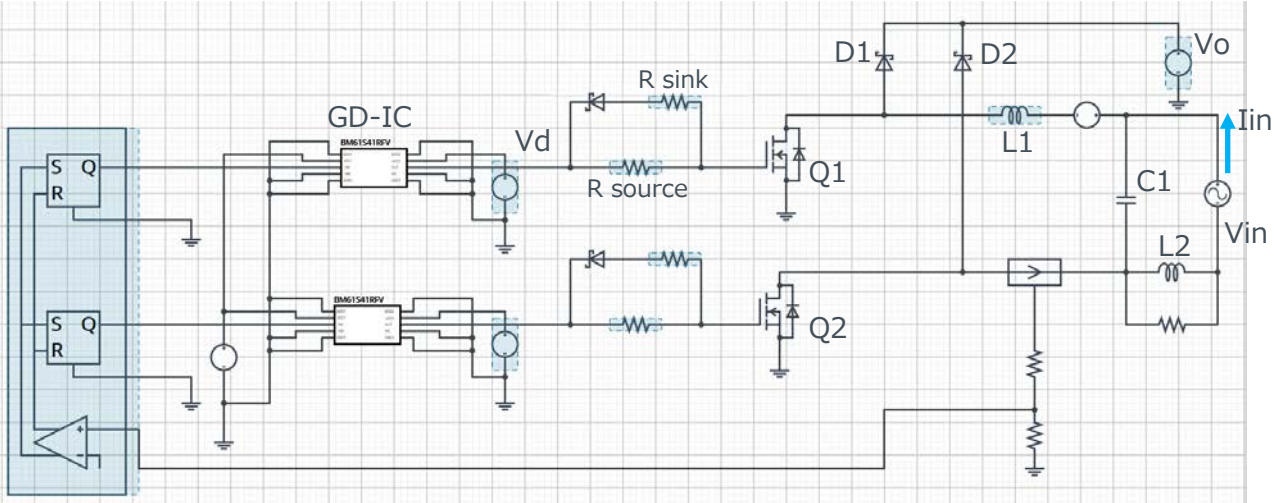
**D1,D2 :**  
**SCS302AHG**  
**SiC SBD (650V 2A)**

**L1 : 150uH , L2 : 100uH**

**C1 : 500nF**

**$T_j : 100^\circ C$**

A-2. PFC Boundary Current Mode  
 Diode-Bridge-Less  $V_{in}=200V$   $I_{in}=2.5A$  Simulation Circuit



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