

half-bridge

Example Bill of Materials for Half Bridge

You need to verify component values are compatible with your application!

- C1 optional RC snubber polypropylene capacitor (e.g. TDK/EPCOS B32621A6332/B32621A6472)
- C2 2.2 uF MKP (polypropylene) DC Link capacitor (e.g. TDK B32673P6225K)
- C3 optional RC snubber polypropylene capacitor (e.g. TDK/EPCOS B32621A6332/B32621A6472)
- C4 1.5 uF MKP (polypropylene) capacitor (e.g. TDK B32674D6155K)
- C5 1.5 uF MKP (polypropylene) capacitor (e.g. TDK B32674D6155K)
- C6 1.5 uF MKP (polypropylene) capacitor (e.g. TDK B32674D6155K)
- C7 1.5 uF MKP (polypropylene) capacitor (e.g. TDK B32674D6155K)
- C8 2.2 uF MKP (polypropylene) capacitor (e.g. TDK B32673P6225K)
- Installing both C2 and C8 is highly recommended!
- D1 1N5819
- D2 1N5819
- D3 Littelfuse 1.5KE400C-B 400 V bidirectional TVS
- D4 Littelfuse 1.5KE400C-B 400 V bidirectional TVS
- D5 Vishay 1.5KE30CA-E3/51
- D6 Vishay 1.5KE30CA-E3/51
- J1 2 position 5.0/5.04 mm spacing screw terminal block PCB mount
- J2 2 position 5.0/5.04 mm spacing screw terminal block PCB mount
- Q1 TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
- Q2 TO-247 IGBT of your choice e.g. FGY75N60SMD Heatsink is required!
- R1 5R to 10R ½ watt metal film gate resistor
- R2 Optional 2.2R to 5R 2-watt metal film RC snubber resistor
- R3 5R to 10R ½ watt metal film gate resistor
- R4 Optional 2.2R to 5R 2-watt metal film RC snubber resistor