

---A networked motor controller for distributed actuation systems, such as legged robots, robotic arms, or any other kind of PWM driven loads.

H-Bridge provides max. 6A of current at 12V.

$R_{shunt} = 0.01 \text{ Ohm}$
 Fixed Gain of 100x
 $I_{max} = 6 \text{ A}$
 $V_{sense} = 60 \text{ mV}$
 $V_{out_max} = 6 \text{ V}$ (clamped by 3V9 Zener)

The circuit diagram shows a precision current source using the ZXCT1022 IC. The IC is configured with a shunt resistor (R1) and a sense resistor (R2) to set the current. The output voltage is clamped by a 3V9 Zener diode (Z2). The circuit is powered by a 5V regulator (U1) and a 3V9 Zener diode (Z2). The output is connected to a load (R8) and a 100nF capacitor (C5). The output voltage is labeled A7[IS_VOUT].

[illegible][illegible]

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