

This design is created for those who love tube (valve) amplifiers and may be freely distributed or reproduced. All rights are retained. May NOT be used for commercial purposes or sold for any reason at all	Project: High Voltage Current Sink 25ma – 300+ma 25 to 400 VDC			NOTES: 1. Be sure to heat sink transistors. 2. Variable pot (T1) provides 0 – 100 ma draw. 3. Fixed Bias (T2) Provides switchable draw from 25ma to 250+ma depending on the switch position and supply voltage (B+). 4. Sections can be combined for higher current. Always bring up on Variac slowly. Over-voltage protection for transistors is not provided. 5. You can do a more elegant design using Op-Amps, but I had these parts available, so this is it. 6. You should be able to sub T1 with a MJE340, but make sure to use a large copper heat sink. T2 is an old transistor, and not available anymore, so you are on your own to find a substitute. Make sure high Base current is supported.
	Purpose: To create a simple variable current sink for simulating hi power loads for power supplies. Can be used to test performance and simulate instantaneous loads.	Mar 24 2009	Output Load 25-350ma	File Name CurrentSink.vsd REV 001
Contact: djc@galaxySETlabs.com Published at galaxySETlabs.com	SHEET 1 OF 2			



