

## H-Bridge devices in SM-8 Package

The SM-8, is an 8 lead version of the industry standard SOT223 package. The package and leads occupy an area of 6.7 x 7.3mm and with a maximum height of 1.7mm it is ideal for space critical applications.

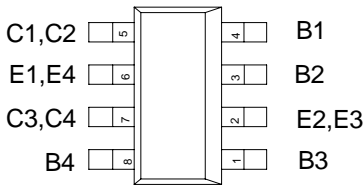
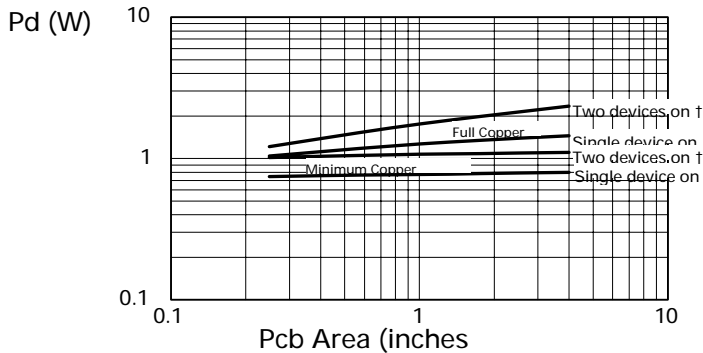


Fig. 2. SM-8 Pin Configuration

The ZHB devices will safely dissipate 2W under DC conditions if mounted on a PCB measuring 50mm x 50mm, with full copper, when opposing NPN and PNP transistor are equally turned on. On a similar sized PCB with minimal copper the devices are still capable of 1W dissipation.



\* The power which can be dissipated assuming the device is mounted in a typical manner on a PCB with copper equal to 2 inches square.

‡Two devices on is the standard operating condition for the bridge.  
Eg. opposing NPN/PNP pairs turned on.

## H-Bridge Devices

Type	Pol.	$V_{CEO}$	$V_{CBO}$	$I_{C(cont)}$	$I_{CM}$	$V_{CE(sat)}$			$h_{FE}$		
		V	V	A	A	max mV	$I_C$ A	$I_B$ mA	min	$I_C$ A	$V_{CE}$ V
ZHB6718	NPN	20	20	2.0	6	150	1.0	10	200	2.0	2
	PNP	-20	-20	-2.5	-6	-200	-1.0	-20	150	-2.0	-2
ZHB6790	NPN	45	50	2.0	6	500	1.0	5	150	2.0	2
	PNP	-40	-50	-2.0	-6	-450	-1.0	-10	150	-2.0	-2
ZHB6792	NPN	70	70	1.0	2	500	1.0	10	150	1.0	2
	PNP	-70	-75	-2.0	-4	-500	-1.0	-25	200	-1.0	-2