

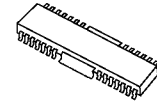
## Stepping Motor Drivers ICs

### Outline

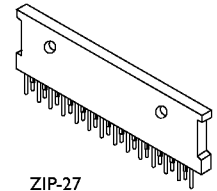
The MTD series are monolithic power ICs that can be directly controlled through a CPU or a Gate Array with few external parts.

### Applications

- Stepping motor drive for office equipment products.
- Stepping motor drive for industrial robots, and automatic equipment.



HSOP-28



ZIP-27

Type No.	Operation	Absolute Maximum Ratings (Ta=25°C)			Characteristics	Outline				
		V <sub>CEO</sub> [V]	I <sub>O</sub> [A]	P <sub>T</sub> [W]		Package	Figure			
MTD1110	Unipolar	80	2	5	Constant-Current chopping function	4-Phase input	ZIP-27	101		
1120			1.2	3			HSOP-28	102		
1120F										
★MTD1361	MOSFET	60	1.5	5		Low Loss MOS output	ZIP-27	101		
MTD2001	Dual H-Bridge									
2003	Bipolar	30	1.2	3		Dual H-Bridge	HSOP-28	102		
2003F						Current levels can be selected in 2 bit digital signal				
2005		60	1.3	5		Dual H-Bridge	ZIP-27	101		
2005F						Selectable slow/fast current decay for microstepping				
2006		35	1.3	5		Dual H-Bridge	HSOP-28	102		
2006F						Selectable slow/fast current decay for microstepping				
2007						Dual H-Bridge			ZIP-27	101
2007F						Automatic current decay speed				
2009J		50	1	3		Two Dual H-Bridges for control of two-stepping motors	HSOP-40	106		
☆ 2015K		35	1.2	2.8	Two Dual H-Bridges with microstepping control	HSOP-36	TBD			

★: Under development

☆: New Product

## Power ICs for Interface

### Outline

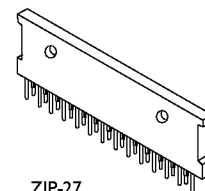
The MTA/MTB series are monolithic power ICs that were developed for use as needle print head drivers in dot matrix printers, and as stepping motor drivers.

### Features

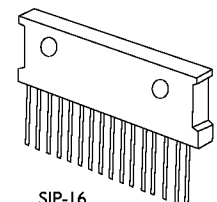
- The input is TTL and CMOS compatible.
- Large output I<sub>C</sub>=2A or 4A, V<sub>CE</sub>=60V or 80V
- Insulated type single in-line packaging with heatsink installed

### Applications

- Head driver for dot matrix printers, ECR and time recorders
- Stepping motor driver for printers, typewriters, FAX, PPC and XY plotters
- Driver for all types of solenoids and displays (LED, etc.)



ZIP-27



SIP-16

Type No.	I <sub>C</sub> [A]	V <sub>CEO</sub> [V]	P <sub>T</sub> [W]		Operation			Outline	
			Ta=25°C	Tc=25°C	Input	Output	Circuits	Package	Figure
MTA001M	2	80	5	35	L Active	NPN Darlington	9	ZIP-27	101
011					H Active				
002		60			PNP Darlington				
MTB001	4	80	5	35	L Active	NPN Darlington	4	SIP-16	103
011					H Active				

MTA001M circuit

