

**UDN-2933B AND UDN-2934B  
3-CHANNEL HALF-BRIDGE MOTOR DRIVERS**

**T**HE UDN-2933B AND UDN-2934B integrated circuits are specifically designed for three-phase, bipolar brushless d-c motor applications. Saturated drivers provide for low output-voltage drops at maximum rated current. The two devices differ only in input logic levels: The UDN-2933B is for use with TTL and 5 V CMOS. The UDN-2934B is intended for use with 12 V CMOS. Both devices have a common ENABLE function, independent inputs, internal

transient suppression, and tri-state outputs allowing them to be used in diverse applications.

**RECOMMENDED MAX. OPERATING CONDITIONS**

Motor Supply Voltage Range, $V_{BB}$ .....	10 V to 30 V
Output Current, $I_{OUT}$ .....	$\pm 800$ mA
Logic Supply Voltage Range, $V_{CC}$ .....	
UDN-2933B .....	4.5 V to 5.5 V
UDN-2934B .....	10 V to 13.5 V

**3-PHASE BRUSHLESS DC MOTOR DRIVE**

Driver Inputs						Motor Current	Electrical Degrees
1	2	3	4	5	6		
Low	High	High	Low	High	Low	AB	0
Low	High	High	Low	Low	High	- CA	60
High	Low	High	Low	Low	High	BC	120
High	Low	High	High	Low	Low	- AB	180
High	High	Low	High	Low	Low	CA	240
High	High	Low	Low	High	Low	- BC	300

