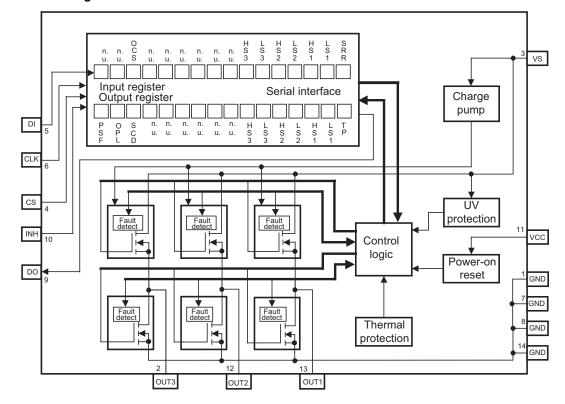
### 1. Description

The Atmel<sup>®</sup> ATA6826C is a fully protected triple half-bridge designed in smart power SOI Technology, used to control up to three different loads by a microcontroller in automotive and industrial applications.

Each of the three high-side and three low-side drivers is capable of driving currents up to 1.0A. The drivers are internally connected to form three half-bridges and can be controlled separately from a standard serial data interface. Therefore, all kinds of loads such as bulbs, resistors, capacitors and inductors can be combined. The IC design especially supports the application of H-bridges to drive DC motors.

Protection is guaranteed regarding short-circuit conditions, overtemperature and undervoltage. Various diagnostic functions and a very low quiescent current in standby mode opens a wide range of applications. Automotive qualification gives added value and enhanced quality for exacting requirements of automotive applications.

Figure 1-1. Block Diagram



# 2. Pin Configuration

Figure 2-1. Pinning SO14

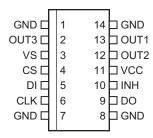


Table 2-1. Pin Description

Pin	Symbol	Function
1	GND	Ground; reference potential; internal connection to pin 7, 8 and 14; cooling tab
2	OUT3	Half-bridge output 3; formed by internally connected power MOS high-side switch 3 and low-side switch 3 with internal reverse diodes; short-circuit protection; overtemperature protection; diagnosis for short and open load
3	VS	Power supply for output stages OUT1, OUT2 and OUT3, internal supply
4	CS	Chip select input; 5V CMOS logic level input with internal pull up; low = serial communication is enabled, high = disabled
5	DI	Serial data input; 5V CMOS logic level input with internal pull down; receives serial data from the control device; DI expects a 16-bit control word with LSB being transferred first
6	CLK	Serial clock input; 5V CMOS logic level input with internal pull down; controls serial data input interface and internal shift register (f <sub>max</sub> = 2MHz)
7	GND	Ground; see pin 1
8	GND	Ground; see pin 1
9	DO	Serial data output; 5V CMOS logic level tristate output for output (status) register data; sends 16-bit status information to the microcontroller (LSB is transferred first); output will remain tri-stated unless device is selected by CS = low, therefore, several ICs can operate on only one data output line.
10	INH	Inhibit input; 5V logic input with internal pull down; low = standby, high = normal operation
11	VCC	Logic supply voltage (5V)
12	OUT2	Half-bridge output 2; see pin 2
13	OUT1	Half-bridge output 1; see pin 2
14	GND	Ground; see pin 1



### 3. Functional Description

#### 3.1 Serial Interface

Data transfer starts with the falling edge of the CS signal. Data must appear at DI synchronized to CLK and is accepted on the falling edge of the CLK signal. LSB (bit 0, SRR) has to be transferred first. Execution of new input data is enabled on the rising edge of the CS signal. When CS is high, pin DO is in tri-state condition. This output is enabled on the falling edge of CS. Output data will change their state with the rising edge of CLK and stay stable until the next rising edge of CLK appears. LSB (bit 0, TP) is transferred first.

Figure 3-1. Data Transfer

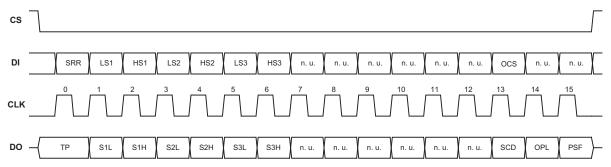


Table 3-1. Input Data Protocol

Bit	Input Register	Function
0	SRR	Status register reset (high = reset; the bits PSF, OPL and SCD in the output data register are set to low)
1	LS1	Controls output LS1 (high = switch output LS1 on)
2	HS1	Controls output HS1 (high = switch output HS1 on)
3	LS2	See LS1
4	HS2	See HS1
5	LS3	See LS1
6	HS3	See HS1
7	n. u.	Not used
8	n. u.	Not used
9	n. u.	Not used
10	n. u.	Not used
11	n. u.	Not used
12	n. u.	Not used
13	ocs	Overcurrent shutdown (high = overcurrent shutdown is active)
14	n. u.	Not used
15	n. u.	Not used

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Table 3-2. Output Data Protocol

Bit	Output (Status) Register	Function
0	TP	Temperature prewarning: high = warning
1	Status LS1	High = output is on, low = output is off; not affected by SRR
2	Status HS1	High = output is on, low = output is off; not affected by SRR
3	Status LS2	Description see LS1
4	Status HS2	Description see HS1
5	Status LS3	Description see LS1
6	Status HS3	Description see HS1
7	n. u.	Not used
8	n. u.	Not used
9	n. u.	Not used
10	n. u.	Not used
11	n. u.	Not used
12	n. u.	Not used
13	SCD	Short circuit detected: set high when at least one high-side or low-side switch is switched off by a short-circuit condition. Bits 1 to 6 can be used to detect the shorted switch.
14	OPL	Open load detected: set high, when at least one active high-side or low-side switch sinks/sources a current below the open load threshold current.
15	PSF	Power-supply fail: undervoltage at pin VS detected

After power-on reset, the input register has the following status:

Bit 15	Bit 14	Bit 13 (OCS)	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7		Bit 5 (LS3)					Bit 0 (SRR)
Х	х	Н	х	х	х	х	х	х	L	L	L	L	L	L	L

The following patterns are used to enable internal test modes of the IC. It is not recommended to use these patterns during normal operation.

	Bit 15	Bit 14	Bit 13 (OCS)	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6 (HS3)						Bit 0 (SRR)
1	Н	Н	Н	Н	Н	L	L	L	L	L	L	L	L	L	L	L
	Н	Н	Н	L	L	Н	Н	L	L	L	L	L	L	L	L	L
	Н	Н	Н	L	L	L	L	Н	Н	L	L	L	L	L	L	L



### 3.2 Power-supply Fail

In case of undervoltage at pin VS, the Power-Supply Fail bit (PSF) in the output register is set and all outputs are disabled. To detect an undervoltage, its duration has to be longer than the undervoltage detection delay time  $t_{\text{dUV}}$ . The outputs are enabled immediately when supply voltage recovers to a normal operating value. The PSF bit stays high until it is reset by the SRR (Status Register Reset) bit in the input register.

#### 3.3 Open-load Detection

If the current through a high-side or low-side switch in the ON-state stays below the open-load detection threshold, the open-load detection bit (OPL) in the output register is set.

The OPL bit stays high until it is reset by the SRR bit in the input register. To detect an open load, its duration has to be longer than the open-load detection delay time  $t_{dSd}$ .

#### 3.4 Overtemperature Protection

If the junction temperature of one or more output stages exceeds the thermal prewarning threshold,  $T_{jPW \, set}$ , the temperature prewarning bit (TP) in the output register is set. When the temperature falls below the thermal prewarning threshold,  $T_{jPW \, reset}$ , the bit TP is reset. The TP bit can be read without transferring a complete 16-bit data word. The status of TP is available at pin DO with the falling edge of CS. After the microcontroller has read this information, CS is set high and the data transfer is interrupted without affecting the status of input and output registers.

If the junction temperature of one or more output stages exceeds the thermal shutdown threshold,  $T_{j \text{ switch off}}$ , all outputs are disabled and the corresponding bits in the output register are set to low. The outputs can be enabled again when the temperature falls below the thermal shutdown threshold,  $T_{j \text{switch on}}$  and the SRR bit in the input register is set to high. Hysteresis of thermal pre-warning and shutdown threshold avoids oscillations.

#### 3.5 Short-circuit Protection

The output currents are limited by a current regulator. Overcurrent detection is activated by writing a high to the OCS (Overcurrent Shutdown) bit in the input register. When the current in an output stage exceeds the overcurrent limitation and shutdown threshold, it is switched off after a delay time ( $t_{dSd}$ ). The short-circuit detection bit (SCD) is set and the corresponding status bit in the output register is set to low. For OCS = low the overcurrent shutdown is inactive. The SCD bit is also set if the current exceeds the overcurrent limitation and shutdown threshold, but the outputs are not affected. By writing a high to the SRR bit in the input register the SCD bit is reset and the disabled outputs are enabled.

#### 3.6 Inhibit

Applying 0V to pin 10 (INH) inhibits the Atmel® ATA6826C.

All output switches are then turned off and switched to tri-state. The data in the output register is deleted. The current consumption is reduced to less than  $2\mu$ A at pin VS and less than  $25\mu$ A at pin VCC. The output switches can be activated again by switching pin 10 (INH) to 5V which initiates an internal power-on reset.



## 4. Absolute Maximum Ratings

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

All values refer to GND pins.

Parameters	Pin	Symbol	Value	Unit
Supply voltage	3	$V_{VS}$	-0.3 to +40	V
Supply voltage t < 0.5s; I <sub>S</sub> > -2A	3	V <sub>VS</sub>	-1	V
Logic supply voltage	11	V <sub>VCC</sub>	-0.3 to +7	V
Logic input voltage	4 to 6, 10	$V_{CS}, V_{DI}, V_{CLK}, V_{INH}$	-0.3 to V <sub>VCC</sub> + 0.3	V
Logic output voltage	9	$V_{DO}$	-0.3 to V <sub>VCC</sub> + 0.3	V
Input current	4 to 6, 10	I <sub>CS</sub> ,I <sub>DI</sub> , I <sub>CLK</sub> , I <sub>INH</sub>	-10 to +10	mA
Output current	9	I <sub>DO</sub>	-10 to +10	mA
Output current	2, 12 and 13	I <sub>Out3</sub> , I <sub>Out2,</sub> I <sub>Out1</sub>	Internally limited, see output specification	
Output voltage	2, 12 and 13	I <sub>Out3</sub> , I <sub>Out2,</sub> I <sub>Out1</sub>	-0.3 to +40	V
Reverse conducting current (t <sub>pulse</sub> = 150µs)	2, 12 and 13 towards pin 3	I <sub>Out3</sub> , I <sub>Out2,</sub> I <sub>Out1</sub>	17	А
Junction temperature range		T <sub>J</sub>	-40 to +150	°C
Storage temperature range		T <sub>STG</sub>	-55 to +150	°C

### 5. Thermal Resistance

Parameters	Test Conditions	Symbol	Value	Unit
Junction pin	Measured to GND Pins 1, 7, 8 and 14	R <sub>thJP</sub>	30	K/W
Junction ambient		R <sub>thJA</sub>	65	K/W

### 6. Operating Range

Threshold for undervoltage detection

Parameters	Symbol	Value	Unit
Supply voltage	V <sub>VS</sub>	V <sub>UV</sub> <sup>(1)</sup> to 40	V
Logic supply voltage	V <sub>VCC</sub>	4.75 to 5.25	V
Logic input voltage	$V_{CS}, V_{DI}, V_{CLK}, V_{INH}$	–0.3 to V <sub>VCC</sub>	V
Serial interface clock frequency	f <sub>CLK</sub>	2	MHz
Junction temperature range	T <sub>j</sub>	-40 to +150	°C



Note:

#### **Noise and Surge Immunity** 7.

Parameters	Test Conditions	Value
Conducted interferences	ISO 7637-1	Level 4 <sup>(1)</sup>
Interference suppression	VDE 0879 Part 2	Level 5
ESD (human body model); pins 2, 12, 13 vs. GND ESD (human body model), all other pins	HBM: AEC-Q100-002-Ref-D CEI/IEC 60749-26:2006 ESDA/JEDEC JS-001-2010	8kV 5kV
CDM (charged device model)	ANSI/ESD S5.3.1-2009	1kV
MM (machine model)	AEC Q100-003-REV-E ANSI/ESD S5.2-2009	250V

Test pulse 5: V<sub>smax</sub> = 40V Note:

#### 8. **Electrical Characteristics**

 $7.5 \text{V} < \text{V}_{\text{VS}} < 40 \text{V}; \ 4.75 \text{V} < \text{V}_{\text{VCC}} < 5.25 \text{V}; \ \text{INH} = \text{High}; -40 ^{\circ}\text{C} < \text{T}_{j} < 150 ^{\circ}\text{C}; \ \text{unless otherwise specified, all values refer to GND pins.}$ 

No.	Parameters	Test Conditions	Pin	Symbol	Min.	Тур.	Max.	Unit	Type*
1	Current Consumption								
1.1	Quiescent current VS	V <sub>VS</sub> < 20V, INH = low	3	I <sub>VS</sub>		1	2	μA	Α
1.2	Quiescent current VCC	4.75V < V <sub>VCC</sub> < 5.25V, INH = low	11	I <sub>vcc</sub>		15	25	μA	А
1.3	Supply current VS	V <sub>VS</sub> < 20V normal operating, all outputs off	3	I <sub>VS</sub>		4	6	mA	А
1.4	Supply current VCC	4.75V < V <sub>VCC</sub> < 5.25V, normal operating	11	I <sub>VCC</sub>		350	500	μA	Α
1.5	Discharge current VS	$V_{VS} = 32.5V$ , INH = low	3	I <sub>VS</sub>	0.5		5.5	mA	Α
1.6	Discharge current VS	V <sub>VS</sub> = 40V, INH = low	3	I <sub>VS</sub>	2.5		10	mA	Α
2	Undervoltage Detection,	, Power-on Reset							
2.1	Power-on reset threshold		11	V <sub>VCC</sub>	3.2	3.9	4.4	V	А
2.2	Power-on reset delay time	After switching on V <sub>CC</sub>		t <sub>dPor</sub>	30	95	190	μs	Α
2.3a	Undervoltage-detection threshold (down)	V <sub>CC</sub> = 5V	3	V <sub>Uv</sub>	5.6		6.5	V	А
2.3b	Undervoltage-detection threshold (up)	V <sub>CC</sub> = 5V	3	V <sub>Uv</sub>	6.0		7.0	V	А
2.4	Undervoltage-detection hysteresis	V <sub>CC</sub> = 5V	3	$\Delta V_{Uv}$		0.6		V	Α
2.5	Undervoltage-detection delay time			t <sub>dUV</sub>	10		40	μs	А

<sup>\*)</sup> Type means: A =100% tested, B = 100% correlation tested, C = Characterized on samples, D = Design parameter

1. Delay time between rising edge of the input signal at pin CS after data transmission and switch on output stages to 90% Note: of final level. Device not in standby for t > 1ms



## 8. Electrical Characteristics (Continued)

 $7.5 \text{V} < \text{V}_{\text{VS}} < 40 \text{V}; \ 4.75 \text{V} < \text{V}_{\text{VCC}} < 5.25 \text{V}; \ \text{INH} = \text{High}; -40 ^{\circ}\text{C} < \text{T}_{j} < 150 ^{\circ}\text{C}; \ \text{unless otherwise specified, all values refer to GND pins.}$ 

No.	Parameters	Test Conditions	Pin	Symbol	Min.	Тур.	Max.	Unit	Type*
3	Thermal Prewarning and	d Shutdown							'
3.1	Thermal prewarning set			T <sub>jPW set</sub>	120	145	170	°C	В
3.2	Thermal prewarning reset			T <sub>jPW reset</sub>	105	130	155	°C	В
3.3	Thermal prewarning hysteresis			$\Delta T_{jPW}$		15		°C	В
3.4	Thermal shutdown off			T <sub>j switch off</sub>	150	175	200	°C	В
3.5	Thermal shutdown on			T <sub>j switch on</sub>	135	160	185	°C	В
3.6	Thermal shutdown hysteresis			$\Delta T_{j \; switch \; off}$		15		К	В
3.7	Ratio thermal shutdown off/thermal prewarning set			T <sub>j switch off/</sub> T <sub>jPW set</sub>	1.05	1.2			В
3.8	Ratio thermal shutdown on/thermal prewarning reset			T <sub>j</sub> switch on/ T <sub>jPW</sub> reset	1.05	1.2			В
4	Output Specification (Ol	UT1-OUT3)							
4.1	On registance	$I_{\text{Out 1-3}} = -0.9A$	2, 12, 13	R <sub>DSOn1-3</sub>		0.8	1.5	Ω	Α
4.2	On resistance	I <sub>Out 1-3</sub> = +0.9A	2, 12, 13	R <sub>DSOn1-3</sub>		0.8	1.5	Ω	Α
4.3	High-side output leakage current	V <sub>Out 1-3</sub> = 0V <sub>,</sub> output stages off	2, 12, 13	I <sub>Out1-3</sub>	-15			μA	Α
4.4	Low-side output leakage current	V <sub>Out 1-3</sub> = V <sub>VS,</sub> output stages off	2, 12, 13	I <sub>Out1-3</sub>			200	μA	Α
4.5	High-side switch reverse diode forward voltage	I <sub>Out 1-3</sub> = 1.5A	2, 12, 13	V <sub>Out1-3</sub> - V <sub>VS</sub>			2	V	Α
4.6	Low-side switch reverse diode forward voltage	I <sub>Out 1-3</sub> = -1.5A	2, 12, 13	V <sub>Out 1-3</sub>	-2			V	Α
4.7	High-side overcurrent limitation and shutdown threshold	$7.5V < V_S < 20V$ $20V \le V_S < 40V$	2, 12, 13	I <sub>Out1-3</sub>	-1.7 -2.0	-1.3 -1.3	-1.0 -1.0	A A	Α
4.8	Low-side overcurrent limitation and shutdown threshold	7.5V < V <sub>S</sub> < 20V 20V ≤ V <sub>S</sub> < 40V	2, 12, 13	I <sub>Out1-3</sub>	1	1.3 1.3	1.7 2.0	A A	Α
4.9	Overcurrent shutdown delay time			t <sub>dSd</sub>	10		40	μs	А
4.10	High-side open-load detection threshold		2, 12, 13	I <sub>Out1-3</sub>	-50	-30	-10	mA	А
4.11	Low-side open-load detection threshold		2, 12, 13	I <sub>Out1-3</sub>	10	30	50	mA	Α

<sup>\*)</sup> Type means: A =100% tested, B = 100% correlation tested, C = Characterized on samples, D = Design parameter

Note: 1. Delay time between rising edge of the input signal at pin CS after data transmission and switch on output stages to 90% of final level. Device not in standby for t > 1ms



## 8. Electrical Characteristics (Continued)

 $7.5V < V_{VS} < 40V$ ;  $4.75V < V_{VCC} < 5.25V$ ; INH = High;  $-40^{\circ}C < T_{j} < 150^{\circ}C$ ; unless otherwise specified, all values refer to GND pins.

No.	Parameters	Test Conditions	Pin	Symbol	Min.	Тур.	Max.	Unit	Type*
4.12	Open-load detection delay time			t <sub>dSd</sub>	200		600	μs	А
4.13	High-side output switch on delay <sup>(1)</sup>	$V_{VS} = 13V$ $R_{Load} = 30\Omega$		t <sub>don</sub>			20	μs	А
4.14	Low-side output switch on delay <sup>(1)</sup>	$V_{VS} = 13V$ $R_{Load} = 30\Omega$		t <sub>don</sub>			20	μs	Α
4.15	High-side output switch off delay <sup>(1)</sup>	$V_{VS} = 13V$ $R_{Load} = 30\Omega$		t <sub>doff</sub>			20	μs	А
4.16	Low-side output switch off delay <sup>(1)</sup>	$V_{VS} = 13V$ $R_{Load} = 30\Omega$		$t_{doff}$			3	μs	Α
4.17	Dead time between corresponding high- and low-side switches	$V_{VS} = 13V$ $R_{Load} = 30\Omega$		$t_{don} - t_{doff}$	1			μs	Α
5	Logic Inputs DI, CLK, C	S, INH							
5.1	Input voltage low-level threshold		4-6, 10	$V_{IL}$	0.3 × V <sub>VCC</sub>			V	Α
5.2	Input voltage high-level threshold		4-6, 10	$V_{IH}$			0.7 × V <sub>VCC</sub>	V	А
5.3	Hysteresis of input voltage		4-6, 10	$\Delta V_{I}$	50		700	mV	В
5.4	Pull-down current pin DI, CLK, INH	$V_{DI}$ , $V_{CLK}$ , $V_{INH} = V_{CC}$	5, 6, 10	I <sub>PD</sub>	10		65	μA	Α
5.5	Pull-up current pin CS	V <sub>CS</sub> = 0V	4	I <sub>PU</sub>	-65		-10	μA	Α
6	Serial Interface – Logic	Output DO							
6.1	Output-voltage low level	I <sub>DOL</sub> = 2mA	9	$V_{DOL}$			0.4	V	А
6.2	Output-voltage high level	I <sub>DOL</sub> = -2mA	9	$V_{DOH}$	V <sub>VCC</sub> – 0.7V			V	А
6.3	Leakage current (tri-state)	$V_{CS} = V_{CC}$ $0V < V_{DO} < V_{VCC}$	9	I <sub>DO</sub>	-10		10	μA	А
7	Inhibit Input - Timing								
7.1	Delay time from standby to normal operation	P = 100% correlation toot		t <sub>dINH</sub>			100	μs	А

<sup>\*)</sup> Type means: A =100% tested, B = 100% correlation tested, C = Characterized on samples, D = Design parameter

Note: 1. Delay time between rising edge of the input signal at pin CS after data transmission and switch on output stages to 90% of final level. Device not in standby for t > 1ms

# 9. Serial Interface – Timing

No.	Parameters	Test Conditions	Pin	Timing Chart No. <sup>(1)</sup>	Symbol	Min.	Тур.	Max.	Unit	Type*
8.1	DO enable after CS falling edge	C <sub>DO</sub> = 100pF	9	1	t <sub>ENDO</sub>			200	ns	D
8.2	DO disable after CS rising edge	C <sub>DO</sub> = 100pF	9	2	t <sub>DISDO</sub>			200	ns	D
8.3	DO fall time	C <sub>DO</sub> = 100pF	9	-	t <sub>DOf</sub>			100	ns	D
8.4	DO rise time	C <sub>DO</sub> = 100pF	9	-	t <sub>DOr</sub>			100	ns	D
8.5	DO valid time	C <sub>DO</sub> = 100pF	9	10	t <sub>DOVal</sub>			200	ns	D
8.6	CS setup time		4	4	t <sub>CSSethl</sub>	225			ns	D
8.7	CS setup time		4	8	t <sub>CSSetIh</sub>	225			ns	D
8.8	CS high time		4	9	t <sub>CSh</sub>	500			ns	D
8.9	CLK high time		6	5	t <sub>CLKh</sub>	225			ns	D
8.10	CLK low time		6	6	t <sub>CLKI</sub>	225			ns	D
8.11	CLK period time		6	-	t <sub>CLKp</sub>	500			ns	D
8.12	CLK setup time		6	7	t <sub>CLKSethl</sub>	225			ns	D
8.13	CLK setup time		6	3	t <sub>CLKSetIh</sub>	225			ns	D
8.14	DI setup time		5	11	t <sub>DIset</sub>	40			ns	D
8.15	DI hold time		5	12	t <sub>DIHold</sub>	40			ns	D

<sup>\*)</sup> Type means: A =100% tested, B = 100% correlation tested, C = Characterized on samples, D = Design parameter

Note: 1. See Figure 9-1 on page 12 "Serial Interface Timing with Chart Numbers"



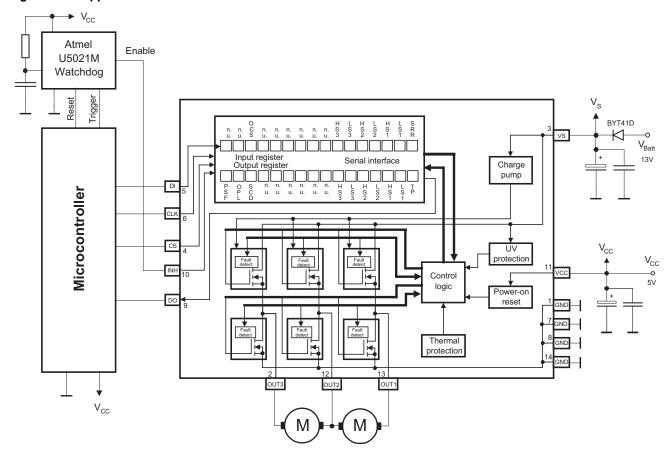
CS DO CS CLK DI CLK 12 DO

Figure 9-1. Serial Interface Timing with Chart Numbers

Inputs DI, CLK, CS: High level = 0.7 x V $_{\rm CC}$ , low level = 0.3 x V $_{\rm CC}$  Output DO: High level = 0.8 x V $_{\rm CC}$ , low level = 0.2 x V $_{\rm CC}$ 

### 10. Application Circuit

Figure 10-1. Application Circuit



## 11. Application Notes

It is strongly recommended to connect the blocking capacitors at  $V_{CC}$  and  $V_{S}$  as close as possible to the power supply and GND pins.

Recommended value for capacitors at V<sub>S</sub>:

Electrolytic capacitor  $C > 22\mu F$  in parallel with a ceramic capacitor C = 100nF. The value for electrolytic capacitor depends on external loads, conducted interferences and reverse conducting current  $I_{Out1,2,3}$  (see Section 4. "Absolute Maximum Ratings" on page 7).

Recommended value for capacitors at  $V_{\text{CC}}$ :

Electrolytic capacitor  $C > 10\mu F$  in parallel with a ceramic capacitor C = 100nF.

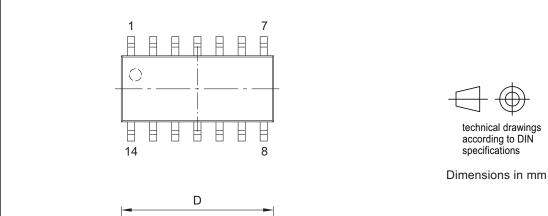
To reduce thermal resistance it is recommended to place cooling areas on the PCB as close as possible to the GND pins.

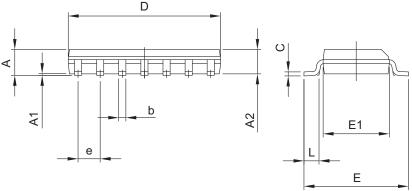


# 12. Ordering Information

Extended Type Number	Package	Remarks
ATA6826C-TUQY	SO14	Power package, taped and reeled, lead-free

# 13. Package Information





Note<sup>1)</sup>: Dimensions "D" and "E1" do not include Moldflash or protrusion. (MAX. 0.15mm per side)

Bemerkung: ASE

COMMON DIMENSIONS (Unit of Measure = mm)				
Symbol	MIN	NOM	MAX	
Α	1.35	1.55	1.75	
A1	0.10	0.18	0.25	
A2	1.25	1.38	1.50	
b	0.33	0.42	0.51	
С	0.19	0.22	0.25	
D1)	8.55	8.65	8.75	
E <sup>1)</sup>	3.80	3.90	4.00	
Е	5.80	6.00	6.20	
е		1.27 BSC		
L	0.40	0.84	1.27	

04/13/12

	TITLE	GPC	DRAWING NO.	REV.
Atmet Package Drawing Contact: packagedrawings@atmel.com	Package: SO14		6.541-5053.01-4	1

14 ATA6826C [DATASHEET]

9213E-AUTO-06/14



# 14. Revision History

Please note that the following page numbers referred to in this section refer to the specific revision mentioned, not to this document.

Revision No.	History
9213E-AUTO-06/14	Put datasheet in the latest template
9213D-AUTO-09/12	Section 7 "Noise and Surge Immunity" on page 8 changed
9213C-AUTO-05/12	Section 13 "Package Information" on page 14 changed
9213B-BCD-01/11	Section 3.6 "Inhibit" on page 6 changed





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