1. General description

The PCA82C250 is the interface between a CAN protocol controller and the physical bus. The device provides differential transmit capability to the bus and differential receive capability to the CAN controller.

2. Features

- Fully compatible with the "ISO 11898" standard
- High speed (up to 1 MBd)
- Bus lines protected against transients in an automotive environment
- Slope control to reduce Radio Frequency Interference (RFI)
- Differential receiver with wide common-mode range for high immunity against ElectroMagnetic Interference (EMI)
- Thermally protected
- Short-circuit proof to battery and ground
- Low-current Standby mode
- An unpowered node does not disturb the bus lines
- At least 110 nodes can be connected

3. Applications

High-speed automotive applications (up to 1 MBd).

4. Quick reference data

Table 1. Quick reference data

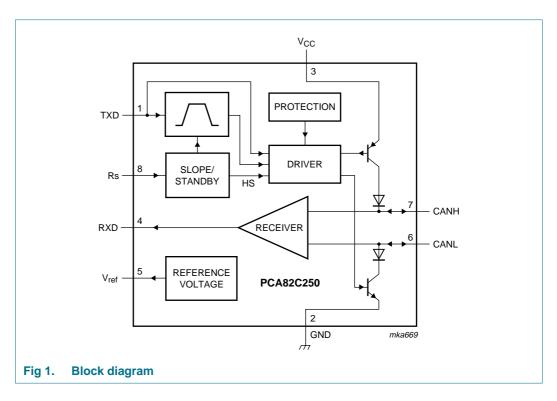
	quient rener en les auto				
Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		4.5	5.5	V
I _{CC}	supply current	Standby mode	-	170	μΑ
1/t _{bit}	maximum transmission speed	non-return-to-zero	1	-	MBd
V _{CAN}	CANH, CANL input/output voltage		-8	+18	V
V _{diff}	differential bus voltage		1.5	3.0	V
t _{PD}	propagation delay	High-speed mode	-	50	ns
T _{amb}	ambient temperature		-40	+125	°C



5. Ordering information

Table 2. Ordering information					
Type number Package					
	Name	Description	Version		
PCA82C250T	SO8	plastic small outline package; 8 leads; body width 3.9 mm	SOT96-1		

6. Block diagram



7. Pinning information

7.1 Pinning

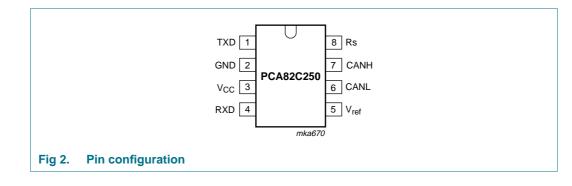


Table 3.	Pin description	
Symbol	Pin	Description
TXD	1	transmit data input
GND	2	ground
V _{CC}	3	supply voltage
RXD	4	receive data output
V _{ref}	5	reference voltage output
CANL	6	LOW-level CAN voltage input/output
CANH	7	HIGH-level CAN voltage input/output
Rs	8	slope resistor input

7.2 Pin description

8. Functional description

The PCA82C250 is the interface between a CAN protocol controller and the physical bus. It is primarily intended for high-speed automotive applications (up to 1 MBd). The device provides differential transmit capability to the bus and differential receive capability to the CAN controller. It is fully compatible with the *"ISO 11898"* standard.

A current limiting circuit protects the transmitter output stage against short-circuit to positive and negative battery voltage. Although the power dissipation is increased during this fault condition, this feature will prevent destruction of the transmitter output stage.

If the junction temperature exceeds a value of approximately 160 °C, the limiting current of both transmitter outputs is decreased. Because the transmitter is responsible for the major part of the power dissipation, this will result in reduced power dissipation and hence a lower chip temperature. All other parts of the PCA82C250 will remain in operation. The thermal protection is needed, in particular, when a bus line is short-circuited.

The CANH and CANL lines are also protected against electrical transients which may occur in an automotive environment.

Pin 8 (Rs) allows three different modes of operation to be selected: High-speed, Slope control and Standby.

For high-speed operation, the transmitter output transistors are simply switched on and off as fast as possible. In this mode, no measures are taken to limit the rise and fall slope. Use of a shielded cable is recommended to avoid RFI problems. The High-speed mode is selected by connecting pin 8 to ground.

For lower speeds or shorter bus length, an unshielded twisted pair or a parallel pair of wires can be used for the bus. To reduce RFI, the rise and fall slope should be limited. The rise and fall slope can be programmed with a resistor connected from pin 8 to ground. The slope is proportional to the current output at pin 8.

If a HIGH level is applied to pin 8, the circuit enters a low-current Standby mode. In this mode, the transmitter is switched off and the receiver is switched to a low current. If dominant bits are detected (differential bus voltage >0.9 V), RXD will be switched to a

LOW level. The microcontroller should react to this condition by switching the transceiver back to normal operation (via pin 8). Because the receiver is slow in Standby mode, the first message will be lost.

Table 4. Truth table of the CAN transceiver

Supply	TXD	CANH	CANL	Bus state	RXD
4.5 V to 5.5 V	0	HIGH	LOW	dominant	0
4.5 V to 5.5 V	1 (or floating)	floating	floating	recessive	1
< 2 V (not powered)	X[1]	floating	floating	recessive	X <mark>[1]</mark>
$2 \text{ V} < \text{V}_{\text{CC}} < 4.5 \text{ V}$	>0.75V _{CC}	floating	floating	recessive	X <mark>[1]</mark>
$2 V < V_{CC} < 4.5 V$	X <u>[1]</u>	floating if V _{Rs} > 0.75V _{CC}	floating if V _{Rs} > 0.75V _{CC}	recessive	X <mark>[1]</mark>

[1] X = don't care.

Table 5.Pin Rs summary

Condition forced at pin Rs	Mode	Resulting voltage or current at pin Rs
$V_{Rs} > 0.75 V_{CC}$	Standby	I _{Rs} < 10 μA
–10 μA < I _{Rs} < –200 μA	Slope control	$0.4V_{CC} < V_{Rs} < 0.6V_{CC}$
$V_{Rs} < 0.3 V_{CC}$	High-speed	I _{Rs} < -500 μA

9. Limiting values

Table 6.Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). All voltages are referenced to pin 2; positive input current.

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC}	supply voltage			-0.3	+9.0	V
Vn	DC voltage at pins 1, 4, 5 and 8			-0.3	$V_{CC} + 0.3$	V
V _{6, 7}	DC voltage at pins 6 and 7	0 V < V_{CC} < 5.5 V; no time limit		-8.0	+18.0	V
V _{trt}	transient voltage at pins 6 and 7	see Figure 8		-150	+100	V
T _{stg}	storage temperature			-55	+150	°C
T _{amb}	ambient temperature			-40	+125	°C
T_{vj}	virtual junction temperature		[1]	-40	+150	°C
V _{esd}	electrostatic discharge voltage		[2]	-2000	+2000	V
			[3]	-200	+200	V

[1] In accordance with "*IEC 60747-1*". An alternative definition of virtual junction temperature is: $T_{vj} = T_{amb} + P_d \times R_{th(vj-a)}$, where $R_{th(j-a)}$ is a fixed value to be used for the calculation of T_{vj} . The rating for T_{vj} limits the allowable combinations of power dissipation (P_d) and ambient temperature (T_{amb}).

[2] Classification A: human body model; C = 100 pF; R = 1500 Ω ; V = ±2000 V.

[3] Classification B: machine model; C = 200 pF; R = 25 Ω ; V = ±200 V.

10. Thermal characteristics

Table 7.	Thermal characteristics			
Symbol	Parameter	Conditions	Тур	Unit
R _{th(j-a)}	thermal resistance from junction to ambient	in free air	160	K/W

11. Characteristics

Table 8.Characteristics

 V_{CC} = 4.5 to 5.5 V; T_{amb} = -40 to +125 °C; R_L = 60 Ω ; I_8 > -10 μ A; unless otherwise specified; all voltages referenced to ground (pin 2); positive input current; all parameters are guaranteed over the ambient temperature range by design, but only 100 % tested at +25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Supply						
l ₃	supply current	dominant; V ₁ = 1 V	-	-	70	mΑ
		recessive; V ₁ = 4 V; R ₈ = 47 k Ω	-	-	14	mΑ
		recessive; $V_1 = 4 V$; $V_8 = 1 V$	-	-	18	mΑ
		Standby; T _{amb} < 90 °C	<u>[1]</u> _	100	170	μΑ
DC bus t	transmitter					
VIH	HIGH-level input voltage	output recessive	$0.7V_{CC}$	-	V _{CC} + 0.3	V
VIL	LOW-level input voltage	output dominant	-0.3	-	$0.3V_{CC}$	V
I _{IH}	HIGH-level input current	$V_1 = 4 V$	-200	-	+30	μΑ
IIL	LOW-level input current	V ₁ = 1 V	-100	-	-600	μΑ
V _{6,7}	recessive bus voltage	$V_1 = 4 V$; no load	2.0	-	3.0	V
I _{LO} off-state output	off-state output leakage current	$-2 V < (V_{6}, V_{7}) < 7 V$	-2	-	+1	mΑ
		–5 V < (V ₆ ,V ₇) < 18 V	-5	-	+12	mA
V ₇	CANH output voltage	V ₁ = 1 V	2.75	-	4.5	V
V ₆	CANL output voltage	V ₁ = 1 V	0.5	-	2.25	V
$\Delta V_{6, 7}$	difference between output	V ₁ = 1 V	1.5	-	3.0	V
	voltage at pins 6 and 7	$V_1 = 1 \text{ V}; \text{ R}_L = 45 \ \Omega; \text{ V}_{CC} \geq 4.9 \text{ V}$	1.5	-	-	V
		$V_1 = 4 V$; no load	-500	-	+50	mV
I _{sc7}	short-circuit CANH current	$V_7 = -5 \text{ V}; V_{CC} \leq 5 \text{ V}$	-	-	-105	mΑ
		$V_7 = -5 \text{ V}; V_{CC} = 5.5 \text{ V}$	-	-	-120	mΑ
I _{sc6}	short-circuit CANL current	V ₆ = 18 V	-	-	160	mΑ
DC bus r	receiver: V ₁ = 4 V; pins 6 and 7 e	externally driven; $-2 V < (V_{6}, V_7) < 7 V;$	unless othe	rwise s	pecified	
V _{diff(r)}	differential input voltage		-1.0	-	+0.5	V
	(recessive)	$-7 \text{ V} < (V_{6}, V_{7}) < 12 \text{ V};$ not Standby mode	-1.0	-	+0.4	V
V _{diff(d)}	differential input voltage		0.9	-	5.0	V
	(dominant)	$-7 \text{ V} < (V_{6}, V_7) < 12 \text{ V};$ not Standby mode	1.0	-	5.0	V
V _{diff(hys)}	differential input hysteresis	see Figure 5	-	150	-	mV
V _{OH}	HIGH-level output voltage	pin 4; I ₄ = −100 μA	$0.8V_{CC}$	-	V _{CC}	V

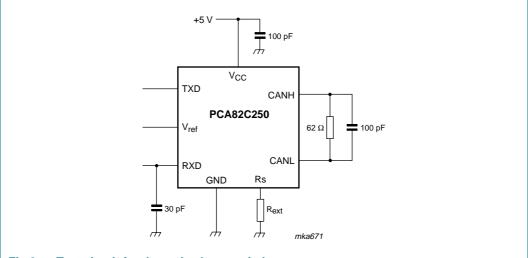
Table 8. Characteristics ...continued

 V_{CC} = 4.5 to 5.5 V; T_{amb} = -40 to +125 °C; R_L = 60 Ω ; I_8 > -10 μ A; unless otherwise specified; all voltages referenced to ground (pin 2); positive input current; all parameters are guaranteed over the ambient temperature range by design, but only 100 % tested at +25 °C.

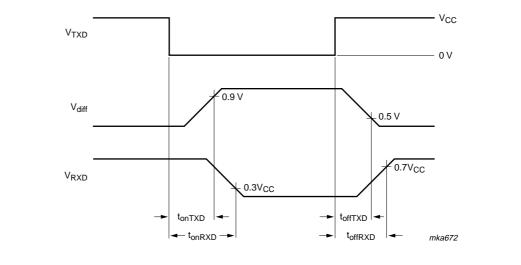
Symbol	Parameter	Conditions	Min	Тур	Max	Uni
V _{OL}	LOW-level output voltage	pin 4; I ₄ = 1 mA	0	-	0.2V _{CC}	V
		l ₄ = 10 mA	0	-	1.5	V
R _i	input resistance	CANH, CANL	5	-	25	kΩ
R _{diff}	differential input resistance		20	-	100	kΩ
Ci	input capacitance	CANH, CANL	-	-	20	pF
C _{diff}	differential input capacitance		-	-	10	pF
Reference	ce output					
V _{ref}	reference output voltage	$V_8 = 1 V; -50 \ \mu A < I_5 < 50 \ \mu A$	0.45V _{CC}	-	$0.55V_{CC}$	V
		$V_8 = 4 V; -5 \mu A < I_5 < 5 \mu A$	$0.4V_{CC}$	-	0.6V _{CC}	V
Timing (see <mark>Figure 4</mark> , <mark>Figure 6</mark> and <mark>Figu</mark>	re 7				
t _{bit}	bit time	minimum; V ₈ = 1 V	-	-	1	μs
t _{onTXD}	delay TXD to bus active	V ₈ = 1 V	-	-	50	ns
t _{offTXD}	delay TXD to bus inactive	V ₈ = 1 V	-	40	80	ns
t _{onRXD}	delay TXD to receiver active	V ₈ = 1 V	-	55	120	ns
t _{offRXD}	delay TXD to receiver inactive	$V_8 = 1 \text{ V}; \text{ V}_{CC} < 5.1 \text{ V}; \text{ T}_{amb} < +85 ^{\circ}\text{C}$	-	82	150	ns
		V_8 = 1 V; V_{CC} < 5.1 V; T_{amb} < +125 °C	-	82	170	ns
		V_8 = 1 V; V_{CC} < 5.5 V; T_{amb} < +85 °C	-	90	170	ns
		$V_8 = 1 \text{ V}; \text{ V}_{CC} < 5.5 \text{ V}; \text{ T}_{amb} < +125 ^{\circ}\text{C}$	-	90	190	ns
t _{onRXD}	delay TXD to receiver active	$R_8 = 47 \text{ k}\Omega$	-	390	520	ns
		$R_8 = 24 \text{ k}\Omega$	-	260	320	ns
t _{offRXD}	delay TXD to receiver inactive	R ₈ = 47 kΩ	-	260	450	ns
		$R_8 = 24 \text{ k}\Omega$	-	210	320	ns
SR	differential output voltage slew rate	$R_8 = 47 \text{ k}\Omega$	-	14	-	V/µ
t _{WAKE}	wake-up time from standby	via pin 8	-	-	20	μs
t _{dRXDL}	bus dominant to RXD LOW	$V_8 = 4$ V; Standby mode	-	-	3	μs
Standby	/Slope Control (pin 8)					
V ₈	input voltage for high-speed		-	-	$0.3V_{CC}$	V
I ₈	input current for high-speed	V ₈ = 0 V	-	-	-500	μA
V _{stb}	input voltage for standby mode		0.75V _{CC}	-	-	V
I _{slope}	slope control mode current		-10	-	-200	μA
V _{slope}	slope control mode voltage		$0.4V_{CC}$	-	0.6V _{CC}	V

 $[1] \quad I_1 = I_4 = I_5 = 0 \text{ mA}; \ 0 \ V < V_6 < V_{CC}; \ 0 \ V < V_7 < V_{CC}; \ V_8 = V_{CC}.$

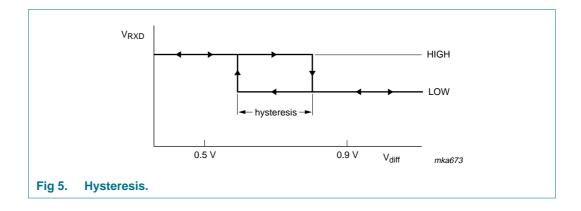
CAN controller interface



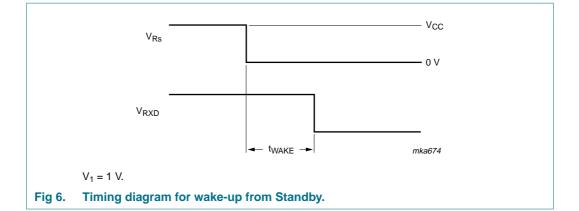


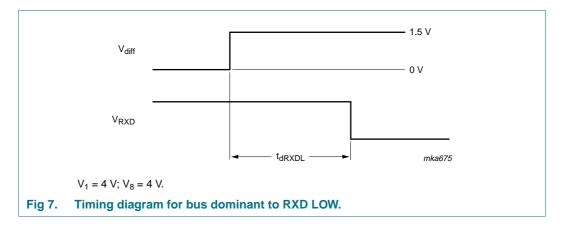


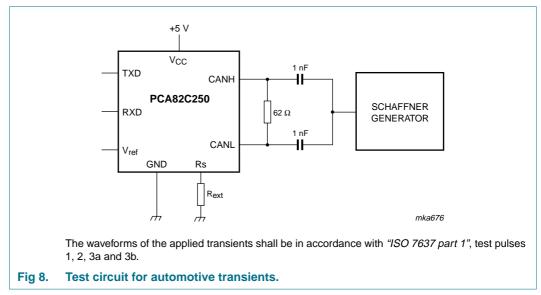




CAN controller interface

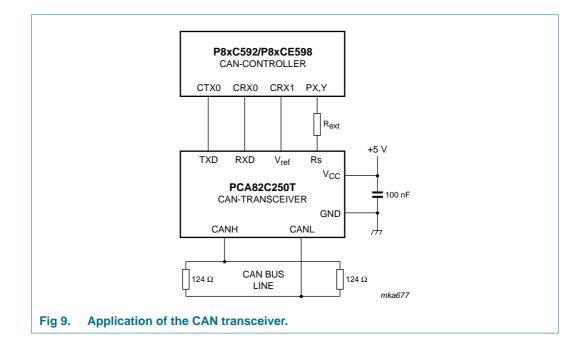


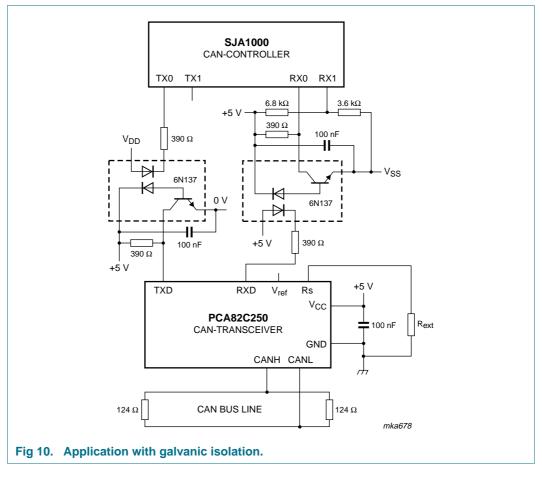




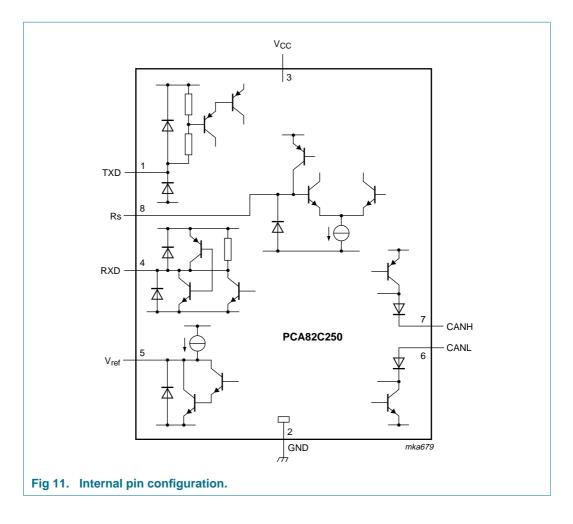
CAN controller interface

12. Application information





CAN controller interface



CAN controller interface

13. Package outline

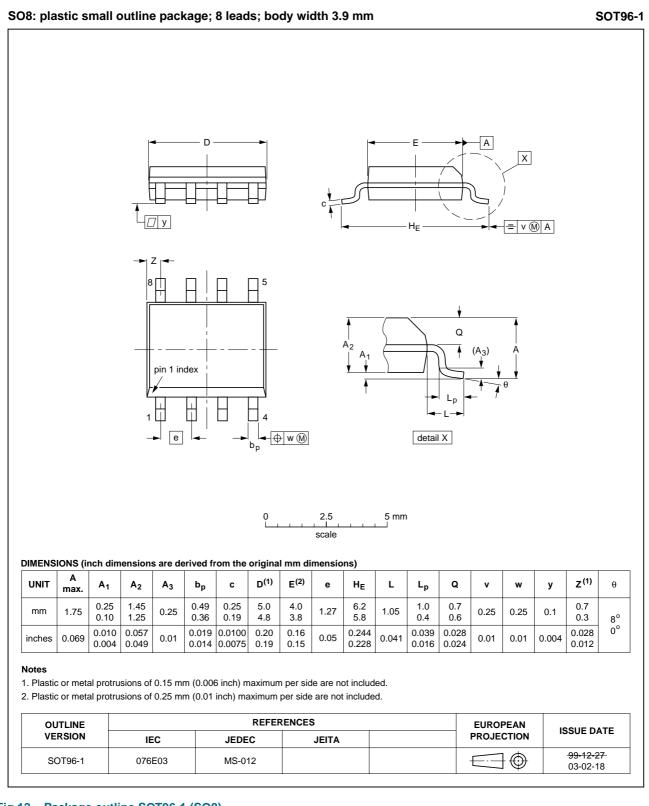


Fig 12. Package outline SOT96-1 (SO8)

14. Soldering of SMD packages

This text provides a very brief insight into a complex technology. A more in-depth account of soldering ICs can be found in Application Note *AN10365 "Surface mount reflow soldering description"*.

14.1 Introduction to soldering

Soldering is one of the most common methods through which packages are attached to Printed Circuit Boards (PCBs), to form electrical circuits. The soldered joint provides both the mechanical and the electrical connection. There is no single soldering method that is ideal for all IC packages. Wave soldering is often preferred when through-hole and Surface Mount Devices (SMDs) are mixed on one printed wiring board; however, it is not suitable for fine pitch SMDs. Reflow soldering is ideal for the small pitches and high densities that come with increased miniaturization.

14.2 Wave and reflow soldering

Wave soldering is a joining technology in which the joints are made by solder coming from a standing wave of liquid solder. The wave soldering process is suitable for the following:

- Through-hole components
- Leaded or leadless SMDs, which are glued to the surface of the printed circuit board

Not all SMDs can be wave soldered. Packages with solder balls, and some leadless packages which have solder lands underneath the body, cannot be wave soldered. Also, leaded SMDs with leads having a pitch smaller than ~0.6 mm cannot be wave soldered, due to an increased probability of bridging.

The reflow soldering process involves applying solder paste to a board, followed by component placement and exposure to a temperature profile. Leaded packages, packages with solder balls, and leadless packages are all reflow solderable.

Key characteristics in both wave and reflow soldering are:

- Board specifications, including the board finish, solder masks and vias
- · Package footprints, including solder thieves and orientation
- · The moisture sensitivity level of the packages
- Package placement
- Inspection and repair
- Lead-free soldering versus SnPb soldering

14.3 Wave soldering

Key characteristics in wave soldering are:

- Process issues, such as application of adhesive and flux, clinching of leads, board transport, the solder wave parameters, and the time during which components are exposed to the wave
- · Solder bath specifications, including temperature and impurities

14.4 Reflow soldering

Key characteristics in reflow soldering are:

- Lead-free versus SnPb soldering; note that a lead-free reflow process usually leads to higher minimum peak temperatures (see <u>Figure 13</u>) than a SnPb process, thus reducing the process window
- Solder paste printing issues including smearing, release, and adjusting the process window for a mix of large and small components on one board
- Reflow temperature profile; this profile includes preheat, reflow (in which the board is heated to the peak temperature) and cooling down. It is imperative that the peak temperature is high enough for the solder to make reliable solder joints (a solder paste characteristic). In addition, the peak temperature must be low enough that the packages and/or boards are not damaged. The peak temperature of the package depends on package thickness and volume and is classified in accordance with Table 9 and 10

Table 9. SnPb eutectic process (from J-STD-020C)

Package thickness (mm)	Package reflow temperature (°C)		
	Volume (mm ³)		
	< 350	≥ 350	
< 2.5	235	220	
≥ 2.5	220	220	

Table 10. Lead-free process (from J-STD-020C)

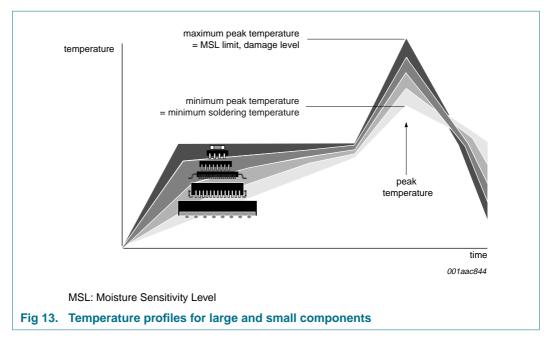
Package thickness (mm)	Package reflow temperature (°C)				
	Volume (mm ³)				
	< 350	350 to 2000	> 2000		
< 1.6	260	260	260		
1.6 to 2.5	260	250	245		
> 2.5	250	245	245		

Moisture sensitivity precautions, as indicated on the packing, must be respected at all times.

Studies have shown that small packages reach higher temperatures during reflow soldering, see Figure 13.

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CAN controller interface



For further information on temperature profiles, refer to Application Note AN10365 "Surface mount reflow soldering description".

15. Revision history

Table 11. Revision	history			
Document ID	Release date	Data sheet status	Change notice	Supersedes
PCA82C250_6	20090326	Product data sheet	-	PCA82C250_5
Modifications:		of this data sheet has been re of NXP Semiconductors.	edesigned to comply v	vith the new identity
	 Legal texts 	have been adapted to the new	v company name whe	ere appropriate.
	 DIP8 packa 	ge discontinued; bare die no l	longer available.	
PCA82C250_5	20000113	Product specification	-	PCA82C250_3
PCA82C250_3	19971021	Preliminary specification		PCA82C250_2
PCA82C250_2	19940915	-		PCA82C250_1
PCA82C250_1	19940408	-		-

16. Legal information

16.1 Data sheet status

Document status[1][2]	Product status ^[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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17. Contact information

For more information, please visit: http://www.nxp.com

For sales office addresses, please send an email to: salesaddresses@nxp.com

PCA82C250_6 Product data sheet

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PCA82C250	Р	review Product inform	nation i Sel	ection guide	Æ	See also		
Datasheet	PCA82C250	- CAN controller inter	face			See the a fields of ir	answers to FAQ's on	certain
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								DACK ID IDP
Features								Hide
High speed (up to 1 ME Bus lines protected aga Slope control to reduce Differential receiver wit Thermally protected Short-circuit proof to ba Low-current Standby m	ainst transients in an automotiv Radio Frequency Interference h wide common-mode range fo attery and ground hode bes not disturb the bus lines	(RFI)	oMagnetic Interference	(EMI)				
							I	Back to top
Products/packages								Hide
Type number	Orderable part number	Ordering code (12NC)	Product status	Package	Packing	Ма	arking	ECCN
PCA82C250T/YM	PCA82C250T/YM,112	9352 888 83112	Development	SOT96	Tube	Sta	andard Marking	

Development

Development

SOT96

SOT96

Reel Pack, SMD, 7"

Reel Pack, SMD, 13"

Standard Marking

Standard Marking

PCA82C250T/YM

PCA82C250T/YM

PCA82C250T/YM,115

PCA82C250T/YM,118

9352 888 83115

9352 888 83118

The variants in the table below are discontinued. See the table Discontinued information for more information.

Type number	Orderable part number	Ordering code (12NC)	Product status	Package	Packing	Marking	ECCN
PCA82C250T/N4	PCA82C250T/N4,112	9350 853 30112	Discontinued Replacement product	SOT96	Tube	Standard Marking	
PCA82C250T/N4	PCA82C250T/N4,115	9350 853 30115	Discontinued Replacement product	SOT96	Reel Pack, SMD, 7"	Standard Marking	
PCA82C250T/N4	PCA82C250T/N4,118	9350 853 30118	Discontinued Replacement product	SOT96	Reel Pack, SMD, 13"	Standard Marking	

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Quality/reliability/chemical content

Type number	Orderable part number	Chemical content	RoHS	Leadfree conversion date	RHF	IFR (FIT)	MTBF (hours)	MSL
PCA82C250T/YM	PCA82C250T/YM,112	Not available	EU/CN ROHSCOMPLIANT D	Always Pb-free	D			
PCA82C250T/YM	PCA82C250T/YM,115	Not available	EU/CN ROHSCOMPLIANT D	Always Pb-free	D			
PCA82C250T/YM	PCA82C250T/YM,118	Not available	EU/CN ROHSCOMPLIANT D	Always Pb-free	D			

The variants in the table below are discontinued. See the table Discontinued information for more information.

Type number	Orderable part number	Chemical content	RoHS	Leadfree conversion date	RHF	IFR (FIT)	MTBF (hours)	MSL
PCA82C250T/N4	PCA82C250T/N4,112	PCA82C250T_N4	EU/CN ROHSCOMPLIANT D	week 3, 2005	G			
PCA82C250T/N4	PCA82C250T/N4,115	PCA82C250T_N4	EU/CN ROHSCOMPLIANT D	week 3, 2005	G			
PCA82C250T/N4	PCA82C250T/N4,118	PCA82C250T_N4	EU/CN ROHSCOMPLIANT	week 3, 2005	G			

Quality and reliability disclaimer

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Pricing/ordering/availability

Type number	Ordering code (12NC)	Orderable part number	Indicative price/unit (\$)	Region	Distributor	ln stock	Order quantity	Inventory date	Buy online	Samples
PCA82C250T/YM	9352 888 83112	PCA82C250T/YM,112								not available
PCA82C250T/YM	9352 888 83115	PCA82C250T/YM,115								not available
PCA82C250T/YM	9352 888 83118	PCA82C250T/YM,118								not available

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Discontinued information

Type number Ordering code Las (12NC)	e buy delivery	Replacement product	DN Notice	Status	Comments
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PCA82C250T/N4	935085330112	31-dec- 09	31-mrt-12	PCA82C250T/YM	DN 64	Sole source product Limited availability (check with your usual sales contact)	FAB ICN5 Closure. Refer to PCN200901053A dated January 21, 2009. Extended Last Time Delivery to 31.3.2012. Replacement type with new diffusion fab location only
PCA82C250T/N4	935085330115	31-dec- 09	31-mrt-12	PCA82C250T/YM	DN 64	Sole source product Limited availability (check with your usual sales contact)	FAB ICN5 Closure. Refer to PCN200901053A dated January 21, 2009. Extended Last Time Delivery to 31.3.2012. Replacement type with new diffusion fab location only
PCA82C250T/N4	935085330118	31-dec- 09	31-mrt-12	PCA82C250T/YM	DN 64	Sole source product Limited availability (check with your usual sales contact)	FAB ICN5 Closure. Refer to PCN200901053A dated January 21, 2009. Extended Last Time Delivery to 31.3.2012. Replacement type with new diffusion fab location only

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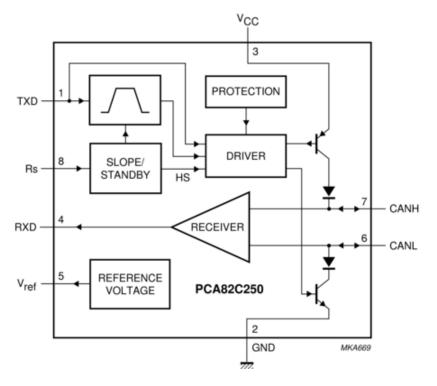
Applications

High-speed automotive applications (up to 1 MBd).

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Block diagrams/pinning



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-soign support

Application Notes

AN10211_2;TJA1040 high speed CAN transceiver (2006-11-10) AN00094_3;TJA1041/1041A high speed CAN transceiver (2006-11-08) AN00020_2;TJA1050 high speed CAN transceiver (2006-11-10)

Support Documents

75015742; Add value to your networks with CAN solutions that set the standard (2006-09-01) 75015744; High-speed CAN transceivers TJA104x, JA1050 and PCA82C25x (2006-09-01) 75016161; NXP Automotive networking solutions (2007-09-01) 75015741; The vital link in the interconnected car (2006-09-01) PCA82C250 251 TJA1040 TJA1050; Upgrading Note PCA82C250/251 -> TJA1040, TJA1050 (2001-11-20)

Parametrics/similar products

Type number	Package	Supply voltage (V)	Application	Configuration	CATEGORY	FEATURES	FUNCTION	Operating temp. (Cel)	No. of Pins	Package Material	Controller Type
PCA82C250T/N4	SOT96	4.75 ~ 5.25	Control Devices	HS-CAN transceiver	transceiver	ISO11898-2 compliant, standby mode	Controllers	-40 ~ +125	8	DIL8, SO8, bare die	CAN Interface
PCA82C250T/YM	SOT96	4.75 ~ 5.25	Control Devices	HS-CAN transceiver	transceiver	ISO11898-2 compliant, standby mode	Controllers	-40 ~ +125	8	SO8	CAN Interface

Similar products

PCA82C250 links to the similar products page containing an overview of products that are similar in function or related to the type number(s) as listed on this page. The similar products page includes products from the same catalog tree(s), relevant selection guides and products from the same functional category.

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