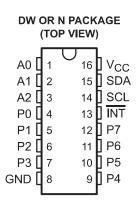
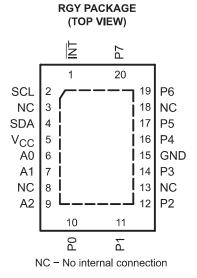
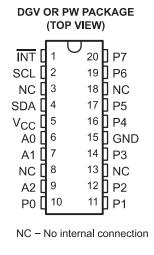
SCPS068C - JULY 2001 - REVISED JANUARY 2004

- Low Standby-Current Consumption of 10 μA Maximum
- I²C to Parallel-Port Expander
- Open-Drain Interrupt Output
- Compatible With Most Microcontrollers
- Latched Outputs With High-Current Drive Capability for Directly Driving LEDs
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II







description/ordering information

This 8-bit input/output (I/O) expander for the two-line bidirectional bus (I 2 C) is designed for 2.5-V to 6-V V $_{CC}$ operation.

The PCF8574 provides general-purpose remote I/O expansion for most microcontroller families via the I²C interface [serial clock (SCL), serial data (SDA)].

The device features an 8-bit quasi-bidirectional I/O port (P0-P7), including latched outputs with high-current drive capability for directly driving LEDs. Each quasi-bidirectional I/O can be used as an input or output without the use of a data-direction control signal. At power on, the I/Os are high. In this mode, only a current source to V_{CC} is active. An additional strong pullup to V_{CC} allows fast rising edges into heavily loaded outputs. This device turns on when an output is written high and is switched off by the negative edge of SCL. The I/Os should be high before being used as inputs.

ORDERING INFORMATION

TA	PACKAGET		ORDERABLE PART NUMBER	TOP-SIDE MARKING
-40°C to 85°C	QFN - RGY	Tape and reel	PCF8574RGYR	PF574
	PDIP - N	Tube	PCF8574N	PCF8574N
	SOIC - DW	Tube	PCF8574DW	PCF8574
		Tape and reel	PCF8574DWR	
	TSSOP - PW	Tape and reel	PCF8574PWR	PF574
	TVSOP - DGV	Tape and reel	PCF8574DGVR	PF574

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design quidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

