

PIC16F1826/1827

TABLE 1: PIC16F1826/1827/PIC16LF1826/1827 FAMILY TYPES

Device	Program Memory Flash (words)	Data EEPROM (bytes)	SRAM (bytes)	I/Os	10-bit A/D (ch)	Timers 8/16-bit	EUSART	MSSP	CCP/ ECCP	Cap Touch Channels
PIC16F1826	2048	256	256	16	12	2/1	Yes	1	0/1	12
PIC16LF1826	2048	256	256	16	12	2/1	Yes	1	0/1	12
PIC16F1827	4096	256	384	16	12	4/1	Yes	2	2/2	12
PIC16LF1827	4096	256	384	16	12	4/1	Yes	2	2/2	12

FIGURE 1: 18-PIN PDIP, SOIC PACKAGE DIAGRAM FOR PIC16F1826/PIC16LF1826

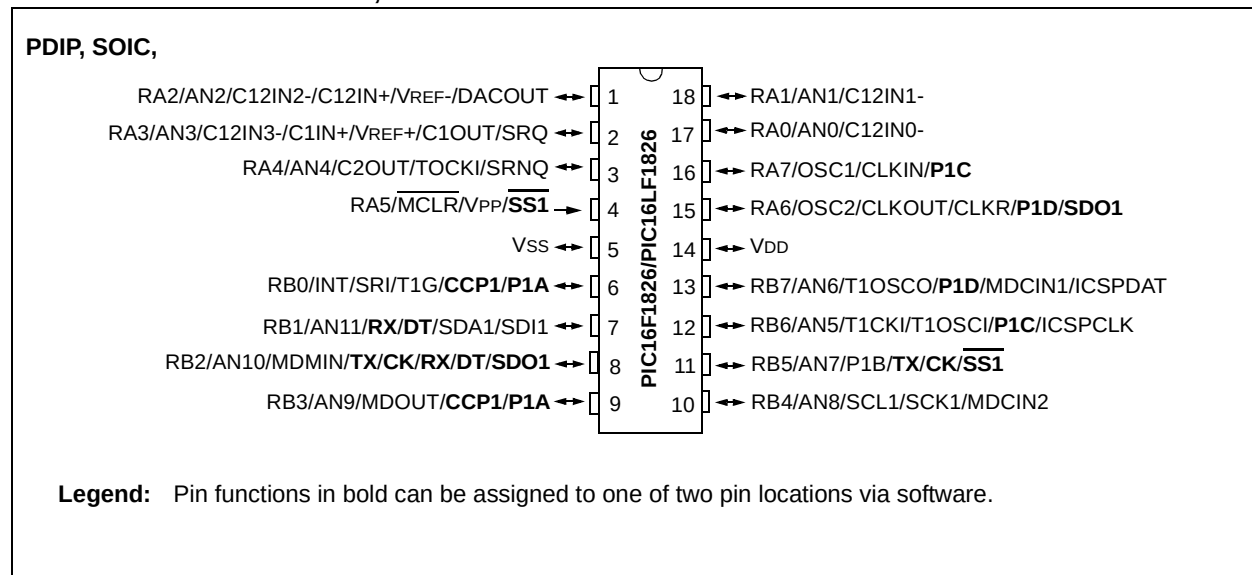


FIGURE 2: 18-PIN PDIP, SOIC PACKAGE DIAGRAM FOR PIC16F1827/PIC16LF1827

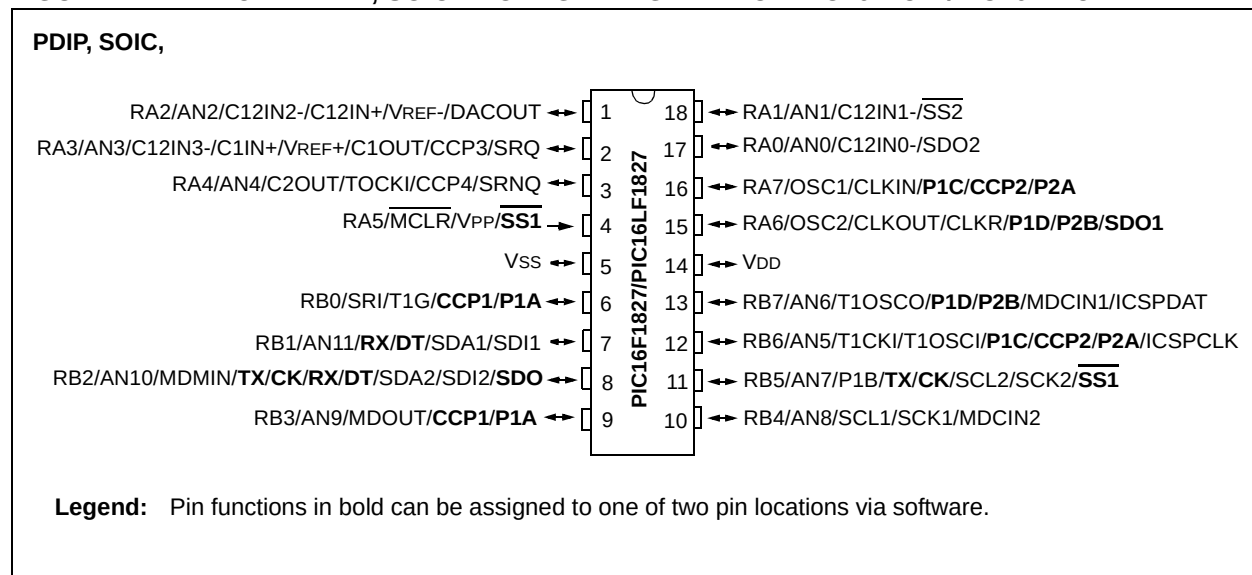


FIGURE 3: 20-PIN SSOP PACKAGE DIAGRAM FOR PIC16F1826/PIC16LF1826

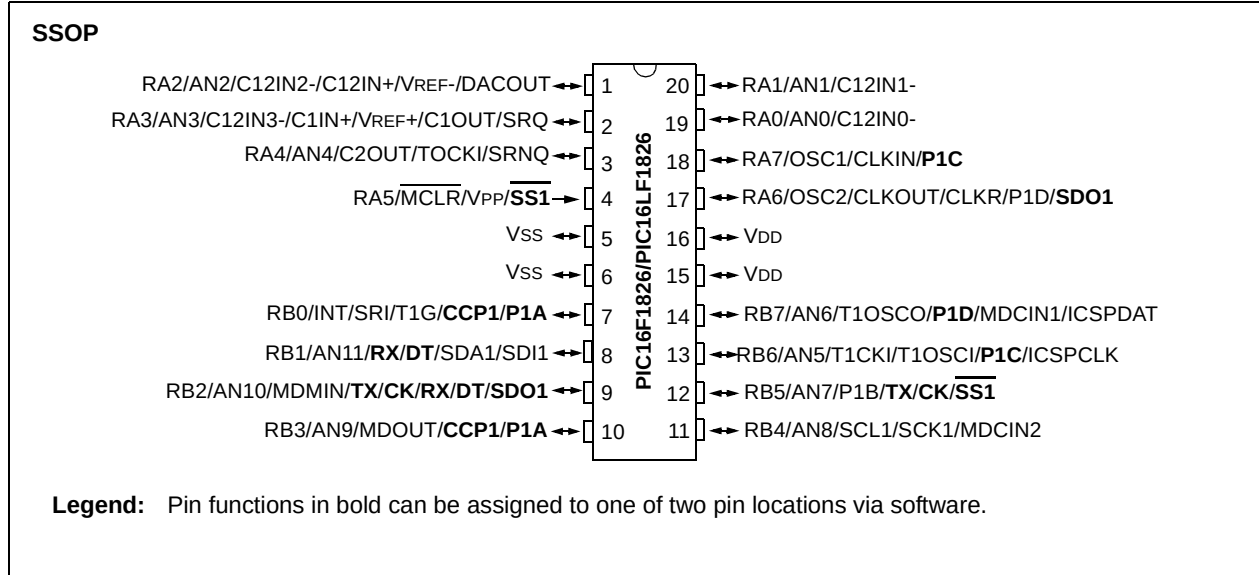


FIGURE 4: 20-PIN SSOP PACKAGE DIAGRAM FOR PIC16F1827/PIC16LF1827

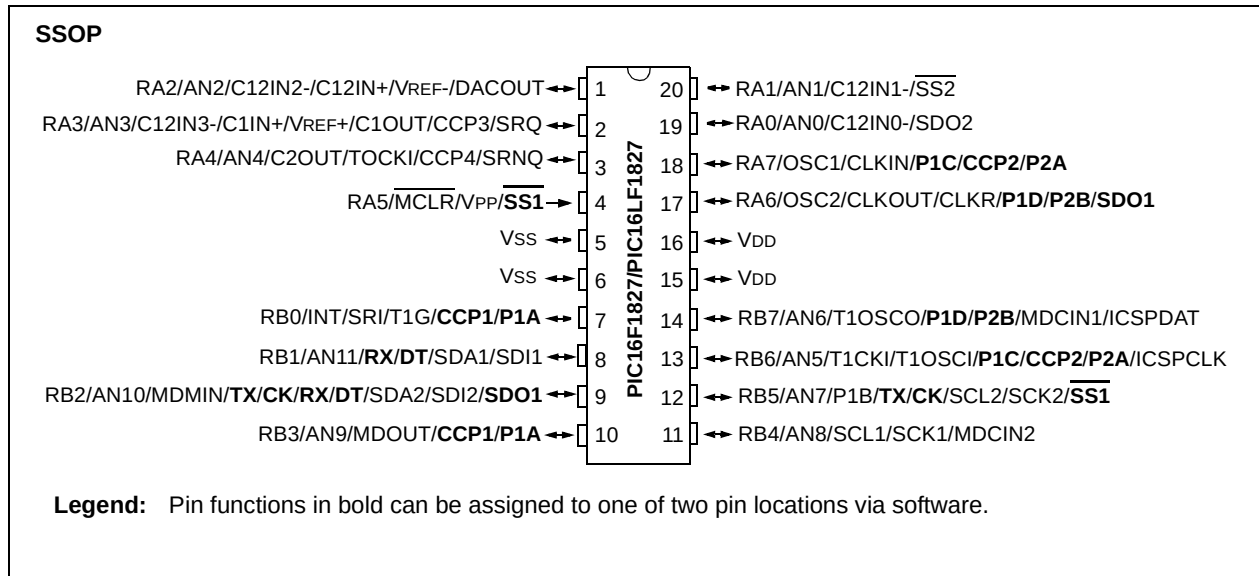


FIGURE 5: 28-PIN QFN PACKAGE DIAGRAM FOR PIC16F1826

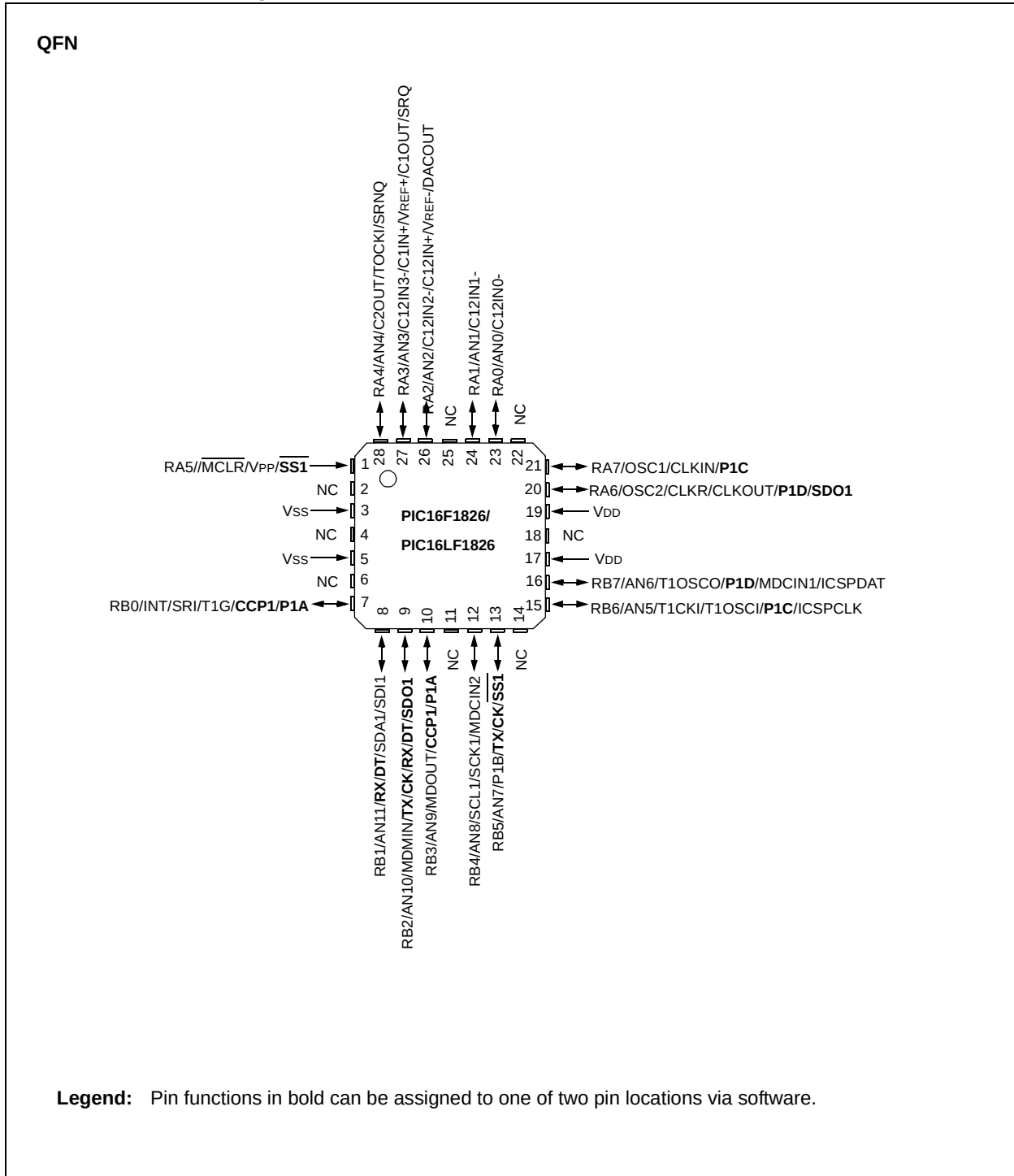
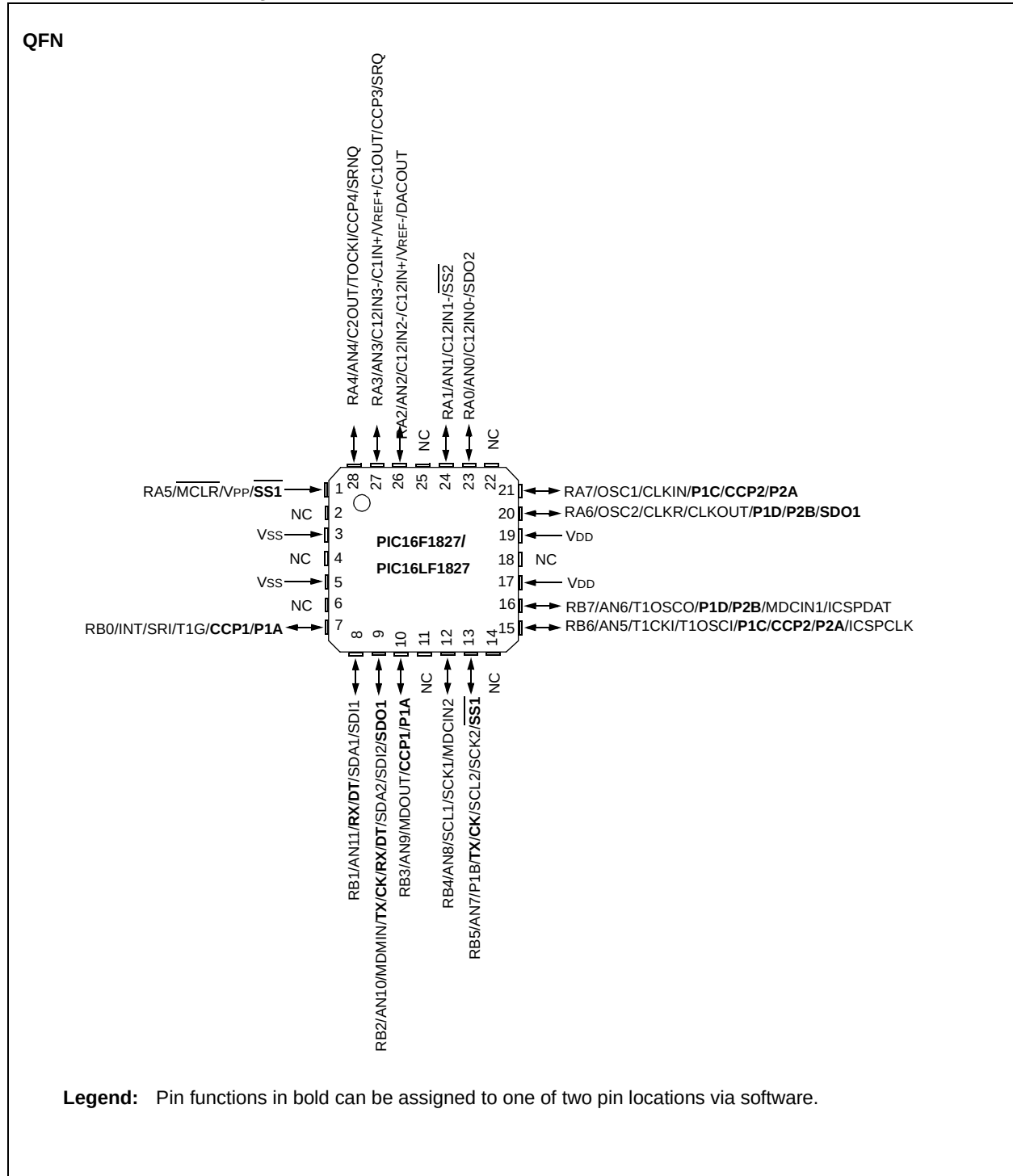


FIGURE 6: 28-PIN QFN PACKAGE DIAGRAM FOR PIC16F1827



PIC16F1826/1827

TABLE 2: PIN ALLOCATION TABLE (PIC16F1826/1827)

I/O	18-Pin PDIP/SOIC	20-Pin SSOP	28-Pin QFN	A/D	Cap Sense	Comparator	SR Latch	Timers	CCP	EUSART	MSSP	Interrupt	Modulator	Pull-up	Basic
RA0	17	19	23	AN0	CPS0	C12IN0-	—	—	—	—	SDO2 ⁽²⁾	—	—	N	—
RA1	18	20	24	AN1	CPS1	C12IN1-	—	—	—	—	SS2 ⁽²⁾	—	—	N	—
RA2	1	1	26	AN2	CPS2	C12IN2-C12IN+	—	—	—	—	—	—	—	N	DACOUT VREF-
RA3	2	2	27	AN3	CPS3	C12IN3-C1IN+ C1OUT	SRQ	—	CCP3 ⁽²⁾	—	—	—	—	N	VREF+
RA4	3	3	28	AN4	CPS4	C2OUT	SRNQ	T0CKI	CCP4 ⁽²⁾	—	—	—	—	N	—
RA5	4	4	1	—	—	—	—	—	—	—	SS1 ⁽¹⁾	—	—	Y	MCLR VPP
RA6	15	17	20	—	—	—	—	—	P1D ⁽¹⁾ P2B ^(1,2)	—	SDO1 ⁽¹⁾	—	—	N	OSC2 CLKOUT CLKR
RA7	16	18	21	—	—	—	—	—	P1C ⁽¹⁾ CCP2 ^(1,2) P2A ^(1,2)	—	—	—	—	N	OSC1 CLKIN
RB0	6	7	7	—	—	—	SRI	T1G	CCP1 ⁽¹⁾ P1A ⁽¹⁾	—	—	INT IOC	—	Y	—
RB1	7	8	8	AN11	CPS11	—	—	—	—	RX ⁽¹⁾ DT ⁽¹⁾	SDA1 SDI1	IOC	—	Y	—
RB2	8	9	9	AN10	CPS10	—	—	—	—	RX ⁽¹⁾ DT ⁽¹⁾ TX ⁽¹⁾ CK ⁽¹⁾	SDA2 ⁽²⁾ SDI2 ⁽²⁾ SDO1 ⁽¹⁾	IOC	MDMIN	Y	—
RB3	9	10	10	AN9	CPS9	—	—	—	CCP1 ⁽¹⁾ P1A ⁽¹⁾	—	—	IOC	MDOUT	Y	—
RB4	10	11	12	AN8	CPS8	—	—	—	—	—	SCL1 SCK1	IOC	MDCIN2	Y	—
RB5	11	12	13	AN7	CPS7	—	—	—	P1B	TX ⁽¹⁾ CK ⁽¹⁾	SCL2 ⁽²⁾ SCK2 ⁽²⁾ SS1 ⁽¹⁾	IOC	—	Y	—
RB6	12	13	15	AN5	CPS5	—	—	T1CKI T1OSCI	P1C ⁽¹⁾ CCP2 ^(1,2) P2A ^(1,2)	—	—	IOC	—	Y	ICSPCLK
RB7	13	14	16	AN6	CPS6	—	—	T1OSCO	P1D ⁽¹⁾ P2B ^(1,2)	—	—	IOC	MDCIN1	Y	ICSPDAT
VDD	14	15, 16	17, 19	—	—	—	—	—	—	—	—	—	—	—	VDD
VSS	5	5, 6	3, 5	—	—	—	—	—	—	—	—	—	—	—	VSS

Note 1: Pin functions can be assigned to one of two pin locations via software.

2: Functions are only available on the PIC16F1827 and PIC16LF1827.

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