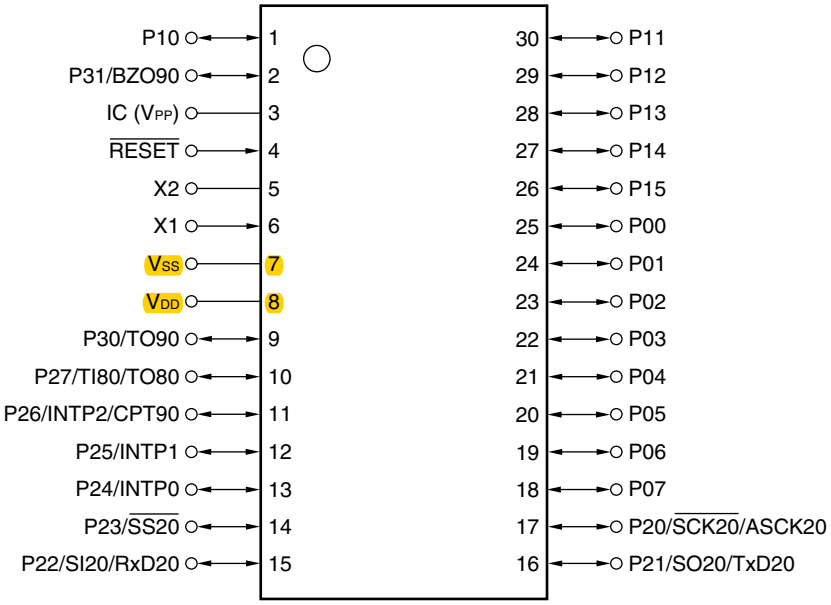
1.6 Pin Configuration (Top View)

30-pin plastic SSOP (7.62 mm (300))

μPD789071MC-×××-5A4
μPD789072MC-×××-5A4
μPD789074MC-×××-5A4
★ μPD789071MC(A)-×××-5A4
★ μPD789072MC(A)-×××-5A4
★ μPD789074MC(A)-×××-5A4
μPD78F9076MC-5A4



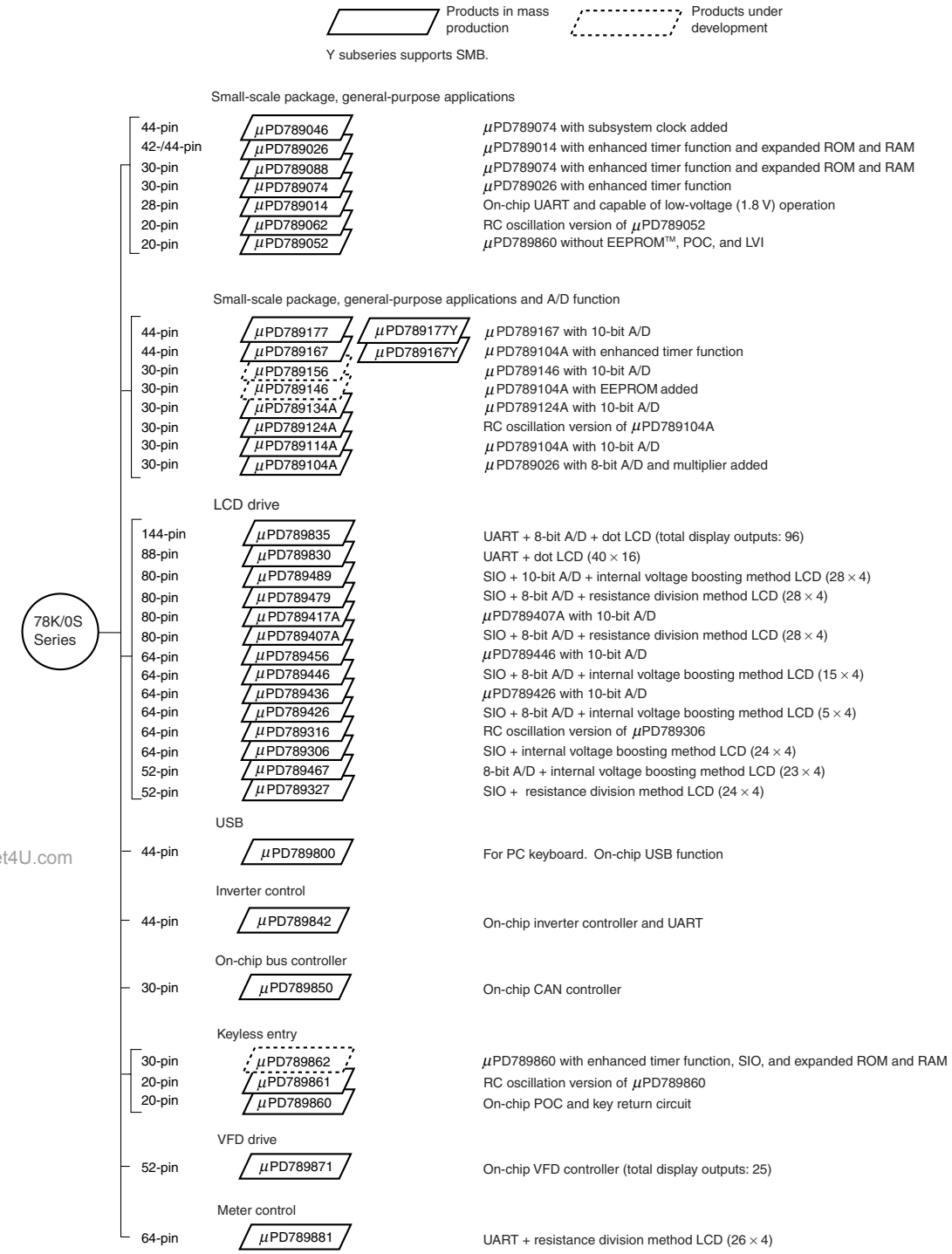
Caution Connect the IC (Internally Connected) pin directly to VSS.

Remark Pin connections in parentheses are intended for the μPD78F9076.

ASCK20:	Asynchronous serial input	SCK20:	Serial clock
BZO90:	Buzzer output	SI20:	Serial input
CPT90:	Capture trigger input	SO20:	Serial output
IC:	Internally connected	SS20:	Chip select input
INTP0 to INTP2:	External interrupt input	TI80:	Timer input
P00 to P07:	Port 0	TO80, TO90:	Timer output
P10 to P15:	Port 1	TxD20:	Transmit data
P20 to P27:	Port 2	VDD:	Power supply
P30, P31:	Port 3	VPP:	Programming power supply
RESET:	Reset	VSS:	Ground
RxD20:	Receive data	X1, X2:	Crystal/ceramic oscillator

★ 1.7 78K/0S Series Lineup

The products in the 78K/0S Series are listed below. The names enclosed in boxes are subseries names.



Remark VFD (Vacuum Fluorescent Display) is referred to as FIP™ (Fluorescent Indicator Panel) in some documents, but the functions of the two are the same.

The major functional differences between the subseries are listed below.

Series for general-purpose applications and LCD drive

Subseries \ Function		ROM Capacity (Bytes)	Timer				8-Bit A/D	10-Bit A/D	Serial Interface	I/O	V_{DD} MIN.Value	Remarks
			8-Bit	16-Bit	Watch	WDT						
Small-scale package, general-purpose applications	μPD789046	16 K	1 ch	1 ch	1 ch	1 ch	–	–	1 ch (UART: 1 ch)	34	1.8 V	–
	μPD789026	4 K to 16 K			–							
	μPD789088	16 K to 32 K	3 ch							24		
	μPD789074	2 K to 8 K	1 ch									
	μPD789014	2 K to 4 K	2 ch	–						22		
	μPD789062	4 K							–	14		RC-oscillation version
	μPD789052											–
Small-scale package, general-purpose applications + A/D converter	μPD789177	16 K to 24 K	3 ch	1 ch	1 ch	1 ch	–	8 ch	1 ch (UART: 1 ch)	31	1.8 V	–
	μPD789167						8 ch	–				
	μPD789156	8 K to 16 K	1 ch		–		–	4 ch		20		On-chip EEPROM
	μPD789146						4 ch	–				
	μPD789134A	2 K to 8 K					–	4 ch				RC-oscillation version
	μPD789124A						4 ch	–				
	μPD789114A						–	4 ch				–
	μPD789104A						4 ch	–				
LCD drive	μPD789835	24 K to 60 K	6 ch	–	1 ch	1 ch	3 ch	–	1 ch (UART: 1 ch)	37	1.8 V[Note]	Dot LCD supported
	μPD789830	24 K	1 ch	1 ch			–			30	2.7 V	
	μPD789488	32 K	3 ch					8 ch	2 ch (UART: 1 ch)	45	1.8 V	–
	μPD789478	24 K to 32 K					8 ch	–				
	μPD789417A	12 K to 24 K					–	7 ch	1 ch (UART: 1 ch)	43		
	μPD789407A						7 ch	–				
	μPD789456	12 K to 16 K	2 ch				–	6 ch		30		
	μPD789446						6 ch	–				
	μPD789436						–	6 ch		40		
	μPD789426						6 ch	–				
	μPD789316	8 K to 16 K					–		2 ch (UART: 1 ch)	23		RC-oscillation version
	μPD789306											–
	μPD789467	4 K to 24 K		–			1 ch		–	18		
	μPD789327						–		1 ch	21		

Note Flash memory version: 3.0 V

Series for ASSP

Subseries \ Function		ROM Capacity (Bytes)	Timer				8-Bit A/D	10-Bit A/D	Serial Interface	I/O	V_{DD} MIN.Value	Remarks
			8-Bit	16-Bit	Watch	WDT						
USB	μPD789800	8 K	2 ch	–	–	1 ch	–	–	2 ch (USB: 1 ch)	31	4.0 V	–
Inverter control	μPD789842	8 K to 16 K	3 ch	**Note 1**	1 ch	1 ch	8 ch	–	1 ch (UART: 1 ch)	30	4.0 V	–
On-chip bus controller	μPD789850	16 K	1 ch	1 ch	–	1 ch	4 ch	–	2 ch (UART: 1 ch)	18	4.0 V	–
Keyless entry	μPD789861	4 K	2 ch	–	–	1 ch	–	–	–	14	1.8 V	RC-oscillation version, on-chip EEPROM
	μPD789860											On-chip EEPROM
	μPD789862	16 K	1 ch	2 ch					1 ch (UART: 1 ch)	22		
VFD drive	μPD789871	4 K to 8 K	3 ch	–	1 ch	1 ch	–	–	1 ch	33	2.7 V	–
Meter control	μPD789881	16 K	2 ch	1 ch	–	1 ch	–	–	1 ch (UART: 1 ch)	28	2.7 V[Note 2]	–

Notes 1. 10-bit timer: 1 channel

2. Flash memory version: 3.0 V