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Philips Power Devices



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Focus item

Diode
Fast Soft recovery Rectifiers
BYD17D
BYD33M
BYV36E

Hyperfast recovery rectifiers
BYC8-600
BYC10-600

Ultrafast recovery diode
BYQ30E-200
BYV27-200
BYV28-200
BYV32E-200
BYV42E-200
BYV72EW-200
BYM26C
BYR29-600
BYV26C
BYV26E

Schottky diode
PBYR10100
PBYR1025D
PBYR1545CT
PBYR2045CT
PBYR30100WT
PBYR3045WT
PBYR4045WT

MOSFET
2N7002
2N7002E
BSH103
BSH111
BSH203
BSN20
BSS123
BSS84
PH3230S
PH5330E
PH8230E
PHB55N03LTA
PHD45N03LTA
PHKD6N02LT
PHP7NQ60E
PHX10NQ60E
PHX4NQ60E
PHX7NQ60E
PMN45EN
PMWD15UN
PMWD26UN
PSMN130-200D
PSMN165-200K
PSMN-85-150K
SI2302DS
SI2304DS
SI4410DY
SI4800
SI9936DY

TRIAC,SCR
BT131-600
BT134-600E
BT136-600E
BT137-600E
BT151-500R
BT169D

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FOUR-QUADRANT TRIACS

IT (μ m) (A)	VOLTAGE GRADES (V)	IGT (max) (mA)	PACKAGE								
			SURFACE MOUNT			LEADED					
			SOT223	DPAK (SOT428)	D'PAK (SOT404)	TO92 (SOT54)	SOT32	SOT82	SOT186A (isolated TO220AB)	SOT186	TO220AB (SOT78)
0.6	400	5.5,5.7				MAC97A6					
0.6	600	5.5,5.7				MAC97A8					
1	600	3.3,3.5	Z0103MN			Z0103MA					
1	600	5.5,5.7	Z0107MN			Z0107MA					
1	600	10,10,10,10	Z0109MN			Z0109MA					
1	800	3.3,3.5	Z0103NN			Z0103NA					
1	800	5.5,5.7	Z0107NN			Z0107NA					
1	800	10,10,10,10	Z0109NN			Z0109NA					
1	600	3.3,3.7				BT131					
1	500 / 600	-	BT131W								
1	600	D				BT132					
1	600 / 800	-	BT134W								
1	600	D/E	BT134W								
2.5	200	5.5,5,10					T2322B				
4	600	D/G						BT134			
4	600 / 800	E						BT134			
4	600	D/F							BT136X		BT136
4	600 / 800	E		BT136S	BT136B				BT136X		BT136
4	600	D		BT136S	BT136B						
4	600 / 800	F		BT136S							
8	600 / 800	E									BT137
8	600	D/F/G									BT137
8	600 / 800	E/F/G			BT137B						
8	600	D			BT137B						
8	600 / 800	E							BT137X		
8	600	D/F/G							BT137X		
8	600 / 800	D/E/F/G		BT137S							
12	600 / 800	E/F/G									BT138
12	600	F/G			BT138B						
12	600 / 800	E			BT138B						
12	600									BT138F	
12	600 / 800	E/F							BT138X		
16	600 / 800	E/F			BT139B						BT139
16	800	G									BT139
16	600 / 800	G			BT139B						
16	600 / 800	-									
16	600	E/F								BT139F	
16	600	E/F/G								BT139F	
16	800	-							BT139X		
25	600	-							BT139X		
25	400	-									MAC223A8
25	600 / 800	-									MAC223A6
25	600 / 800	-									BTA140

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BISS -Transistor

Characteristics				hFE			Package								
Vceo max(V)	Ic max(mA)	Ic peak(mA)	fT(M) min	min	max	Polarity	SOT54(TO92)	SOT223	SOT89**	SOT23	SOT323(SC70)	SOT363(SC88)	SOT89/SOT490	SOT666	
15	500	1000	250	200	-	NPN							PBSS2515F	PBSS2515VS(DOUBLE)	
15	500	1000	250	200	-	NPN/PNP								PBSS2515VPN(DOUBLE)	
15	500	1000	250	200	-	PNP							PBSS3515F	PBSS3515VS(DOUBLE)	
40	500	1000	250	200	-	NPN							PBSS2540F		
40	500	1000	250	200	-	PNP							PBSS3540F		
40	1000	2000	150	300	900	NPN	PBSS4140S			PBSS4140T	PBSS4140U			PBSS4140V	
40	1000	2000	150	300	800	PNP	PBSS5140S			PBSS5140T	PBSS5140U			PBSS5140V	
40	2000	3000	100	350	-	NPN				PBSS4240T		PBSS4240Y			
40	2000	3000	100	300	-	PNP				PBSS5240T		PBSS5240Y			
20	3000	5000	100	220	-	NPN			PBSS4320X**	PBSS4320T					
20	3000	5000	100	220	-	PNP			PBSS5320X**	PBSS5320T					
50	3000	5000	100	300	-	NPN			PBSS4350X**	PBSS4350T					
50	3000	5000	100	300	-	PNP			PBSS5350X**	PBSS5350T					
50	3000	5000	100	200	-	NPN	PBSS4350S	PBSS4350Z							
50	3000	5000	100	200	-	PNP	PBSS5350S	PBSS5350Z							
40	5000	10000	70	250	-	NPN		PBSS4540Z	PBSS4540X**						
40	5000	10000	60	150	-	PNP		PBSS5540Z	PBSS5540X**						

** NOT RELEASE YET

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Digital Transistor

R1/R2	Characteristics		hFE		Polarity	SOT54/TO92	Package							
	Vr max(V)	If max(mA)	min	max			SOT23	SC59	SOT323(SC70)	SC75/SOT416	SC89/SOT490	SOT363(SC88)	SOT666	
2.2K/2.2K	50	100	30	-	NPN		PDTC123ET							
2.2K/2.2K	50	100	30	-	PNP		PDTA123ET							
2.2K/47K	50	100	100	-	NPN		PDTC123JT			PDTC123JE	PDTC123JEF	PUMH10	PEMH10	
2.2K/47K	50	100	100	-	NPN/PNP							PUMD10	PEMD10	
2.2K/47K	50	100	100	-	PNP		PDTA123JT			PDTA123JE	PDTA123JEF		PEMB10	
4.7K/OPEN	50	100	100	600	NPN		PDTC143TT				PDTC143TEF	PUMH7	PEMH7	
4.7K/OPEN	50	100	100	600	NPN/PNP							PUMD6	PEMD6	
4.7K/OPEN	50	100	100	600	PNP						PDTA143TEF	PUMB3	PEMB3	
4.7K/4.7K	50	100	20	-	NPN	PDTC143ES	PDRC143ET	PDTC143EK	PDTC143EU	PDTC143EE				
4.7K/4.7K	50	100	20	-	PNP	PDTA143ES	PDTA143ET	PDTA143EK	PDTA143EU	PDTA143EE				
4.7K/10K	50	100	50	-	NPN		PDTC143XT	PDTC143XK		PDTC143XE				
4.7K/10K	50	100	50	-	PNP		PDTA143XT	PDTA143XK		PDTA143XE	PDTA143XEF			
4.7K/47K	50	100	100	-	NPN		PDTC143ZT	PDTC143ZK						PUMH13
4.7K/47K	50	100	100	-	NPN/PNP								PUMD13	PEMD13
4.7K/47K	50	100	100	-	PNP		PDTA143ZT	PDTA143ZK						PEMB13
10K/OPEN	50	100	100	600	NPN	PDTC114TS	PDTC114TT	PDTC114TK	PDTC114TU	PDTC114TE		PUMH4	PEMH4	
10K/OPEN	50	100	100	600	NPN/PNP									PEMD4
10K/OPEN	50	100	100	600	PNP	PDTA114TS	PDTA114TT	PDTA114TK	PDTA114TU	PDTA114TE		PUMB4	PEMB4	
10K/10K	50	100	30	-	NPN	PDTC114ES	PDTC114ET	PDTC114EK	PDTC114EU	PDTC114EE	PDTC114EEF	PUMH11	PEMH11	
10K/10K	50	100	30	-	NPN/PNP							PUMD3	PEMD3	
10K/10K	50	100	30	-	PNP	PDTA114ES	PDTA114ET	PDTA114EK	PDTC114EU	PDTA114EE	PDTA114EEF	PUMB11	PEMB11	
10K/47K	50	100	100	-	NPN		PDTC114YE		PDTC114YU	PDTC114YE	PDTC114YEF	PUMH9	PEMH9	
10K/47K	50	100	100	-	NPN/PNP							PUMD9	PEMD9	
10K/47K	50	100	30	-	PNP		PDTA114YE				PDTC114YEF			PEMB9
22K/OPEN	50	100	100	-							PDTC124TEF			
22K/22K	50	100	56	-	NPN	PDTC124ES	PDTC124ET	PDTC124EK	PDTC124EU	PDTC124EE	PDTC124EEF	PUMH1	PEMH1	
22K/22K	50	100	56	-	NPN/PNP							PUMD2	PEMD2	
22K/22K	50	100	56	-	PNP	PDTA124ES	PDTA124ET	PDTA124EK	PDTA124EU	PDTA124EE	PDTA124EEF			PEMB1
22K/47K	50	100	80	-	NPN					PDTC124XE	PDTC124XEF			
22K/47K	50	100	80	-	PNP					PDTA124XE	PDTA124XEF			
47K/22K	50	100	60	-	NPN		PDTC144WT		PDTC144WU					
47K/22K	50	100	60	-	PNP				PDTA144WU					
47K/OPEN	50	100	100	-	NPN					PDTC144TE	PDTC144TEF			
47K/22K	50	100	60	-	NPN		PDTC144WT		PDTC144WU		PDTC144WEF			
47K/22K	50	100	60	-	PNP				PDTA144WU					
47K/47K	50	100	68	-	NPN	PDTC144ES	PDTC144ET	PDTC144EK	PDTC144EU	PDTC144EE	PDTC144EEF	PUMH2	PEMH2	
47K/47K	50	100	68	-	NPN/PNP							PUMD12	PEMD12	
47K/47K	50	100	68	-	PNP	PDTA144ES	PDTA144ET	PDTA144EK	PDTA144EU	PDTA144EE	PDTA144EEF	PUMB2	PEMB2	

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Philips Low Voltage Logic Product

LV

- 9 ns performance
- ± 8 mA drive
- 20 µA standby current
- V_{CC}: 1-3.6V*
- Gate, MSI, buffer functions
- Multisourced

LVC

- 4 ns performance
- ± 24 mA drive
- 20 µA standby current
- V_{CC} : 1.2-3.6V
- 5V tolerant I/O's
- Live insertion
- Bus hold option
- Termination resistor option
- Gates, MSI, 8/16/32-bit bus interface functions
- PicoGate and LFBGA packaging
- Multisourced
- Replaces LCX

ALVC

- 2 ns performance
- ± 24 mA drive
- 40 µA standby current
- V_{CC} : 1.2-3.6V
- 5V tolerant inputs**
- Bus hold option
- Termination resistor option
- Gates, 8, 16, and 32-bit bus interface functions
- LFBGA packaging
- Multisourced
- Replaces VCX

LVT

- 2 ns performance
- 32/64 mA drive
- 120-190 µA standby current
- V_{CC} : 2.7-3.6V
- 5V tolerant I/O's
- Live insertion
- Built-in bus hold
- Termination resistor option
- Gates, 8/16/32-bit bus interface functions
- LFBGA packaging
- Multisourced

ALVT

- 1.5 ns performance
- 32/64 mA drive
- 90 µA standby current
- V_{CC} : 2.3-3.6V
- 5V tolerant I/O's
- Live insertion
- Built-in bus hold
- Termination resistor option
- Bus interface functions
- Multisourced

AVC

- 1.0 ns performance
- ± 8 mA static drive
- High dynamic drive
- 20 µA standby current
- Optimized for 2.5V
- V_{CC} : 1.2-3.3V
- 3.6V tolerant I/O's
- Bus hold option
- Termination resistor option
- Bus interface functions
- Multisourced

AUC

- 1.4 ns performance
- ± 8 mA drive for single point loads
- ± 18 mA high drive option for multidrop loads
- Optimized for 1.8V
- V_{CC} : 1.1-1.95V
- 3.3V tolerant I/O's
- Bus hold option
- Termination resistor option
- PicoGates and bus interface functions
- Multisourced

* LV : some functions can operate up to 5.5V

** Only on non-bus hold part types

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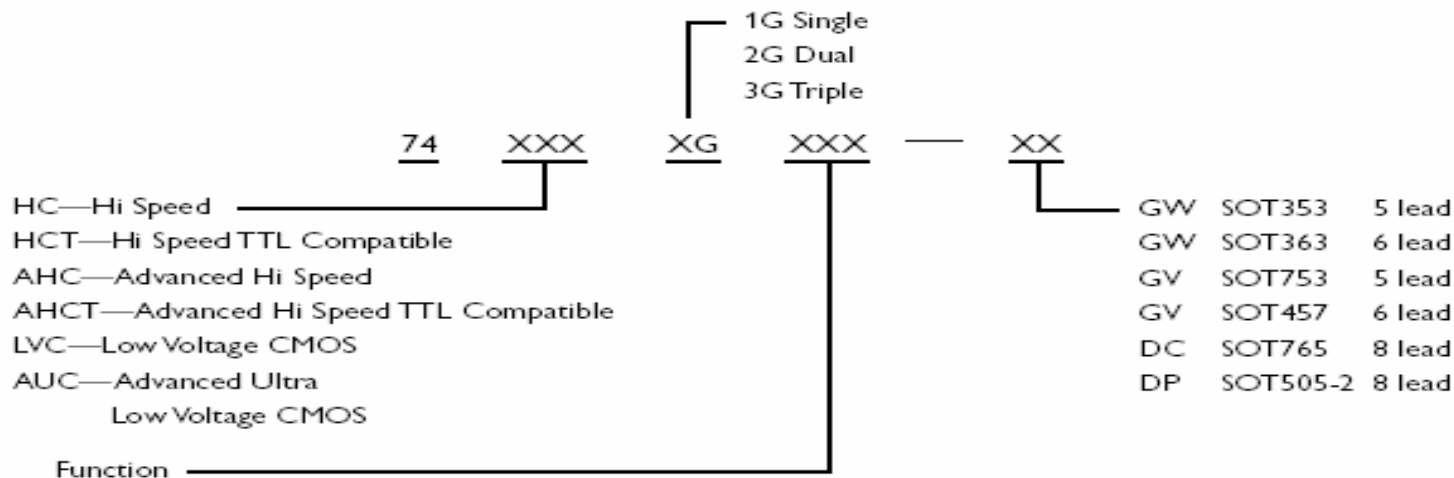
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Philips Logic IC 3V,5V Family

Philips PicoGate Logic naming convention



Package	No. of pins	Philips	TI	Fairchild	ON Semi	Toshiba	ST Micro
SOT353	5	GW	DCK	P5	DFT	FU	CTR
SOT753	5	GV	DBV	M5	DTT	F	STR
SOT363	6	GW	DCK	P6	DFT	FU	N.A.
SOT457	6	GV	DBV	N.A.	DTT	F	N.A.
SOT765	8	DC	DCU	K8	US	FK	N.A.
SOT505-2	8	DP	DCT	N.A.	N.A.	FU	STR

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Philips UART ICs

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Philips 16C UART

UART Device	Channel	Rx & Tx FIFO Bytes	IrDA	Modem Control Pins	General Purpose Outputs	Rx/Tx FIFO INT Trigger	S/W Flow Control (Xon,Xoff)	Data Bus Interface	Package	Part Number
SC16C550	1	16	Yes	6 (Note 1)	2	4 levels/none	Yes	Intel	PLCC44 LQFP48 DIP40	SC16C550IA44 SC16C550IB48 SC16C550IN40
SC16C650	1	32	Yes	6 (Note 1)	2	4 levels/4 levels	Yes	Intel	PLCC44 LQFP48 DIP40	SC16C650IA44 SC16C650IB48 SC16C650IN40
SC16C750	1	16 or 64	No	6 (Note 1)	2	4 levels/none	Yes	Intel	PLCC44 LQFP64	SC16C750IA44 SC16C750IB64
SC16C2550	2	16	Yes	12 (Note 1)	2	4 levels/none	Yes	Intel	PLCC44 LQFP48 DIP40	SC16C2550IA44 SC16C2550IB48 SC16C2550IN40
SC16C2552	2	16	No	12 (Note 1)	2	4 levels/none	Yes	Intel	PLCC44	SC16C2552IA44
SC16C652	2	32	Yes	12 (Note 1)	2	4 levels/4 levels	No	Intel	LQFP48	SC16C652IB48
SC16C752	2	64	No	12 (Note 1)	2	4 levels/4 levels programmable/programmable	Yes	Intel	LQFP48	SC16C752IB48
SC16C554	4	16	Yes	24 (Note 1)	0	4 levels/none	Yes	Intel or Motorola (Note 2)	PLCC68 LQFP64 LQFP64 LQFP80	SC16C554DIA68 SC16C554DIB64 SC16C554IB64 SC16C554IB80
SC16C654	4	64	Yes	24 (Note 1)	0	4 levels/4 levels	Yes	Intel or Motorola (Note 2)	LQFP64 PLCC68 LQFP64	SC16C654DIB64 SC16C654IA68 SC16C654IB64
SC16C754	4	64	No	24 (Note 1)	0	4 levels/4 levels programmable/programmable	Yes	Intel	PLCC68 LQFP80	SC16C754IA68 SC16C754IB80

Note 1: These pins can be used for general purpose input or output signals Note 2: Intel and Motorola Interface in the 68 pin PLCC package only

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I²C Device Summary

www.philipslogic.com/i2c	TYPE OF FUNCTION IN DEVICE										FEATURES												Sampling	Production Released	Budgetary Pricing (1K)											
	GPIO	LED BLINKER	MUX / LATCH / EEPROM	MUX / SWITCH	REPEATER / HUB	BUS CONTROLLER	TEMPERATURE	VOLTAGE	RAM/EEPROM (Kbits)	A/D Converter	# of ADDRESSES	INTERRUPT (In/Out)	HARDWARE RESET	CURRENT (per bit/total mA)	Vcc RANGE (V)					FREQ (kHz)						TEMP (°C)			PACKAGES							
															1.0	1.8	2.5	3.3	5	5V TOLERANT	100	400				0 to 70	-40 to 85	-55 to 125	PIN COUNT	DIP	SO (narrow)	SO (wide)	SSOP	QSOP	TSSOP	
LM75A										8	0-1														8		D				DP	Now	Now	\$1.35		
NE1617A										9															16						DS	Now	Now	\$3.60		
NE1618										9															16						DS	Now	Now	\$3.75		
NE1619										2															16						DS	Now	Now	\$4.50		
P82B715										NA															8	PN	TD					Now	Now	\$3.60		
P82B96										NA															8	PN	TD					Now	Now	\$3.75		
PCA8550			4-1-1							1															16		D		DB		PW	Now	Now	\$0.90		
PCA8581C									1	8															8	P	T					Now	Now			
PCA9515										NA															8		D				DP	Now	Now	\$1.24		
PCA9516										NA															16		D				PW	Now	Now	\$1.64		
PCA9540										1															8		D				DP	Now	Now	\$0.78		
PCA9542										8	2-1														14		D				PW	Now	Now	\$0.98		
PCA9543										4	2-1														14		D				PW	Now	Now	\$1.02		
PCA9544										8	4-1														20			D			PW	Now	Now	\$1.16		
PCA9545										4	4-1														20		D	D			PW	Now	Now	\$1.22		
PCA9546										8															16		D				PW	Now	Now	\$1.00		
PCA9548										8															24			D			PW	Now	Now	\$1.58		
PCA9550										2															8		D				DP	Now	Oct-02	\$1.52		
PCA9551										8															16		D				PW	Now	May-02	\$1.80		
PCA9552										8															8		D	D			PW	Now	Jul-02	\$2.41		
PCA9553										2															24			D			DP	Now	Aug-02	\$1.80		
PCA9554/54A										8	8-1														16		D	DB			PW	Now	Now	\$1.60		
PCA9555										8	16-1														24		D	DB			PW	Now	Now	\$2.19		
PCA9556										8															16						PW	Now	Now	\$1.20		
PCA9557										8															16		D				PW	Now	Now	\$1.30		
PCA9558										2															28						PW	Now	Now	\$1.80		
PCA9559										4															20						PW	Now	Now	\$1.20		
PCA9560										4															20			D			PW	Now	Now	\$1.00		
PCA9561										4															20			D			PW	Now	Now	\$1.20		
PCA9564										128	0-1														20			D			PW	Aug-02	Jan-02	\$3.49		
PCF85102C-2										2															8	N	D					Now	Now	\$0.90		
PCF85103C-2										2															8	N	D					Now	Now	\$0.90		
PCF85116-3										16															8	N	D					Now	Now	\$0.90		
PCF8570										2															8	P	T					Now	Now			
PCF8574/74A										4	0-1														16	P		T	DB			Now	Now			
PCF8575										8	0-1														8	N	D					Now	Now			
PCF8582C-2										2															8	N	D					Now	Now	\$0.62		
PCF8584										128	0-1														20	P		T				Now	Now			
PCF8591										8															16	P	P	T				Now	Now			
PCF8594C-2										4															8	N	D					Now	Now	\$0.68		
PCF8598C-2										8															8	N	D					Now	Now	\$0.74		
PTN3500										2	2-8														16			D			DH	Now	Now	\$1.76		
PTN3501										2	2-64	8-1													20						DH	Now	Now	\$2.08		

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Philips Standard Analog

	Part Numbers	Competitive Advantage	Key Features	Applications
CSP Chip Scale Package	LP2985A-xxUK SA57000-xxUK SA57017-XXUK MAX8877-xxUK MAX8878-xxUK	<ul style="list-style-type: none"> • Board space savings • Cost savings • Eliminates handling & lead coplanarity • Not moisture sensitive 	<ul style="list-style-type: none"> • Same size as die • Board contact by alloy balls directly on the surface 	<ul style="list-style-type: none"> • Battery powered devices • Microprocessor applications • Personal/portable electronics • Cordless/mobile phones • Industrial tools
DDR Bus Termination Regulator	NE57814DD	<ul style="list-style-type: none"> • Reduces cost against discrete & switching linear solutions • Standby mode • Enhanced efficiency 	<ul style="list-style-type: none"> • Fast transient response time • Over Temp protection • Over Current protection • High Bandwidth Drivers • Internal divider 	<ul style="list-style-type: none"> • Desktop/laptop computers • Workstations • Video display systems • Game machines • Embedded systems • Set top boxes
Temperature Sensor	SA56004	<ul style="list-style-type: none"> • Best accuracy over industry • Multiple I²C address • Thermal mask • Interrupt fault queue 	<ul style="list-style-type: none"> • 8-pin internal & external temp sensor • TSSOP & SO8 package 	<ul style="list-style-type: none"> • PC/laptop computers • Workstations
High Speed Converters	TDA 8768B TDA9901	<ul style="list-style-type: none"> • Nyquist or IF sampling • Functions with several possible frequencies • Compatible with all static inputs • TTL & CMOS compatible <ul style="list-style-type: none"> • Single channel front end solution with TDA8768A 	<ul style="list-style-type: none"> • 12-bit resolution • 55/88 MHz sampling rate • 5 V power supply & 3.3 V • Output power supply • Integrated sample & hold amplifier <ul style="list-style-type: none"> • Fast gain switch • 160 mW power dissipation 	<ul style="list-style-type: none"> • Medical imaging • Professional telecommunication • Radar • Imaging <ul style="list-style-type: none"> • Cellular infrastructure • Professional telecommunication • Advanced FM radio

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Philips 8bit, 16bit uC

Type 80C51	Stat./Availab.		Memory					Timers				Serial Interfaces				ADC bits / ch.	I/O Pins	Interrupts (Ext.)/Levels	Program Security
	Sampl.	Prod.	RAM	ROM	OTP	Flash	MTP/ ISP / IAP?	# of Tim.	PWM	PCA	WD	UART	I ² C	CAN	SPI				
6-clk 80C51+ core																			
P87C58X2	V	V	256B	-	32K	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P80C58X2	V	V	256B	32K	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P87C54X2	V	V	256B	-	16K	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P80C54X2	V	V	256B	16K	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P87C52X2	V	V	256B	-	8K	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P80C52X2	V	V	256B	8K	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P87C51X2	V	V	128B	-	4K	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P80C51X2	V	V	128B	4K	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4	
P80C32X2	V	V	256B	-	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4 -	
P80C31X2	V	V	128B	-	-	-	-	3	-	-	-		-	-	-	-	32	6(2)/4 -	
Standard 80C51+ core																			
P89C58	V	V	256B	-	-	32K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C54	V	V	256B	-	-	16K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C52	V	V	256B	-	-	8K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C51	V	V	128B	-	-	4K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
6-clk 80C51+ core																			
P89C61X2	tbd	tbd	256B	-	-	64K	Y/Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C58X2	V	V	256B	-	-	32K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C54X2	V	V	256B	-	-	16K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C52X2	V	V	256B	-	-	8K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
P89C51X2	V	V	128B	-	-	4K	Y/-	3	-	-	-		-	-	-	-	32	6(2)/4	
XA 16BIT																			
XA-G49			2K	-	-	64K	Y/Y/Y	3	-	-	-		(2)	-	-	-	32	38(3)/8	
XA-G39	V	V	1K	-	-	32K	Y/Y/Y	3	-	-	-		(2)	-	-	-	32	38(3)/8	
XA-G37			512B	-	32K	-	-	3	-	-	-		(2)	-	-	-	32	38(3)/8	
XA-G39			512B	-	32K	-	-	3	-	-	-		(2)	-	-	-	32	38(3)/8	

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