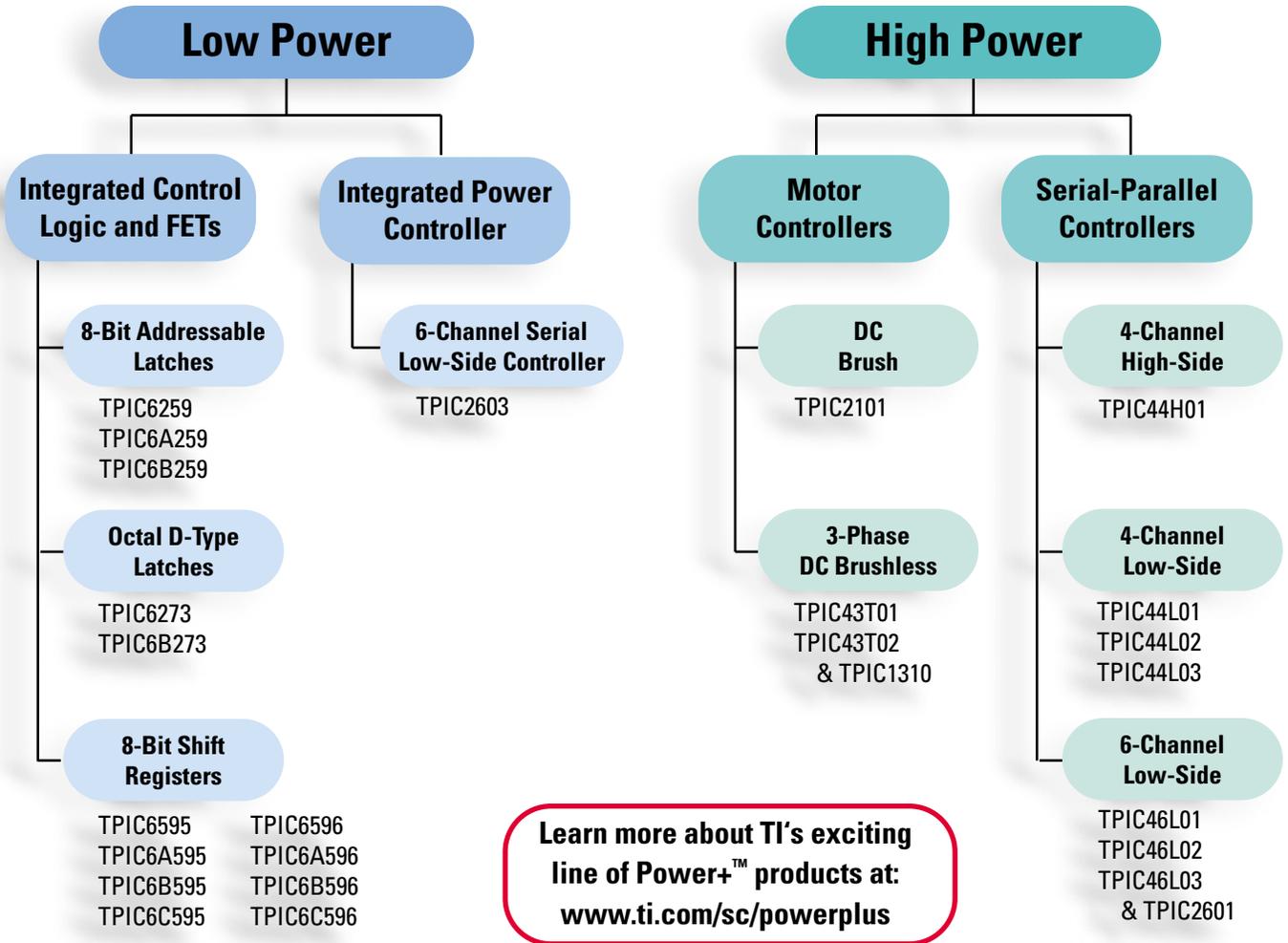


Power Control Products



Power+ Logic™: 8-Bit Devices

Device	Description	V _{DS} max (V)	I _{CC} typ (mA)	I _O (A)	I _{PEAK} (A)	r _{DS(on)} typ (W)	E _{AS} max (mJ)	t _{PLH} typ (ns)	ESD max (kV)	Pin#/Pkg
TPIC6259	Addressable Latch	45	15	0.25	0.75	1.3	75	625	3	20/DW,N
TPIC6273	D-Type Latch	45	15	0.25	0.75	1.3	75	625	3	20/DW,N
TPIC6595	Shift Register	45	15	0.25	0.75	1.3	75	650	3	20/DW,N
TPIC6596	Shift Register	45	15	0.25	0.75	1.3	75	650	3	20/DW,N
TPIC6A259 ¹	Addressable Latch	50	500	0.35	1.1	1	75	125	2.5	20/NE,24/DW
TPIC6A595 ¹	Shift Register	50	500	0.35	1.1	1	75	125	2.5	20/NE,24/DW
TPIC6A596 ¹	Shift Register	50	500	0.35	1.1	1	75	125	2.5	20/NE,24/DW
TPIC6B259 ²	Addressable Latch	50	20	0.15	0.5	5	30	150	2.5	20/DW,N
TPIC6B273 ²	D-Type Latch	50	20	0.15	0.5	5	30	150	2.5	20/DW,N
TPIC6B595 ²	Shift Register	50	20	0.15	0.5	5	30	150	2.5	20/DW,N
TPIC6B596 ²	Shift Register	50	20	0.15	0.5	5	30	150	2.5	20/DW,N
TPIC6C595 ²	Shift Register	33	20	0.1	0.25	7	30	80	2.5	16/D,N
TPIC6C596 ²	Shift Register	33	20	0.1	0.25	7	30	80	2.5	16/D,N

¹ Short-circuit and current-limit protection ² Current-limit capability

(Continued on back)

Power+™ Control

Device	Description	V _{BAT} range (V)	V _{DS} max (V)	I _D /I _{PEAK} (A)	r _{DS(on)} typ (W)	Freq (kHz)	Pin#/Pkg
TPIC0107B ¹	PWM Control Intelligent H-Bridge	6 to 18	40	3/5	0.28	2	20/DWP
TPIC0108B ¹	PWM Control Intelligent H-Bridge	6 to 18	40	3/5	0.28	2	20/DWP
TPIC2603 ¹	6-Channel Serial Interface Low-Side Controller	5.5 to 25	68	0.35/2.25	0.7	4000	20/NE,24/DW

Device	Description	V _{BAT} range (V)	I _{BAT} typ (mA)	I _{GD} max (mA)	f _{OSC} typ (kHz)	t _r /t _f max (μs)	Pin#/Pkg
TPIC2101 ²	DC Brush Motor Controller	8 to 16	4	50	20	1/0.8	14/D,N

Device	Description	V _{CC} range (V)	V _{IT±(HL)} range (mV)	I _{(LGX)/(UGX)} typ (mA)	f _{PWM} typ (kHz)	f _{OSC} /f _{OSC1} max (MHz)	Pin#/Pkg
TPIC43T01 ²	Three-Phase DC Brushless Motor RPM Controller	18 to 28	±4 to ±12	±10	22.7	10/10	38/DA
TPIC43T02 ²	Three-Phase DC Brushless Motor RPM Controller	18 to 28	±4 to ±12	±10	22.7	10/10	38/DA

Device	Description	V _{BAT} range (V)	V _{GATE} range (V)	I _{BAT} typ (mA)	f _{SCLK} max (MHz)	Pin#/Pkg
TPIC44H01 ¹	4-Channel Serial/Parallel High-Side FET Pre-Driver	8 to 24	V _{BAT} +4 to V _{BAT} +18	4	5	32/DA
TPIC44L01 ¹	4-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	24/DB
TPIC44L02 ¹	4-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	24/DB
TPIC44L03 ¹	4-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	24/DB
TPIC46L01 ¹	6-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	28/DB
TPIC46L02 ¹	6-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	28/DB
TPIC46L03 ¹	6-Channel Serial/Parallel Low-Side FET Pre-Driver	8 to 24	7 to 13.5	0.5	10	28/DB

¹ Fault protection and diagnostics ² Fault protection

Power+ Arrays™

Device	Description	V _{DS} max (V)	V _{GS} typ (V)	I _{CONT} (A)	I _{PEAK} (A)	r _{DS(on)} typ (W)	E _{AS} max (mJ)	t _{rr} typ (ns)	Q _g typ (nC)	ESD max (kV)	Pin#/Pkg
TPIC1310	3-Half H-Bridge Driver	30	10	3	12	0.25		30 ¹ /70 ²	1.6	2	15/KTR,KTS
TPIC2601	6-Channel Common-Source Driver	60	10	2	10	0.25	105	72	5.1	2	15/KTC
TPIC2701	7-Channel Common-Source Driver	60	15	0.5	3	0.5	22	165	2.8		16/N

¹ High-side ² Low-side

TI Worldwide Technical Support

Internet

TI Semiconductor Home Page

www.ti.com/sc

TI Distributors

www.ti.com/sc/docs/general/distrib.htm

Product Information Centers

Americas

Phone +1(972) 644-5580
 Fax +1(214) 480-7800
 Internet www.ti.com/sc/ampic

Europe, Middle East, and Africa

Phone
 Belgium (English) +32 (0) 27 45 55 32
 France +33 (0) 1 30 70 11 64
 Germany +49 (0) 8161 80 33 11
 Israel (English) 1800 949 0107
 Italy 800 79 11 37
 Netherlands (English) +31 (0) 546 87 95 45
 Spain +34 902 35 40 28
 Sweden (English) +46 (0) 8587 555 22
 United Kingdom +44 (0) 1604 66 33 99
 Fax +44 (0) 1604 66 33 34
 Email epic@ti.com
 Internet www.ti.com/sc/epic

Japan

Phone International +81-3-3344-5311
 Domestic 0120-81-0026
 Fax International +81-3-3344-5317
 Domestic 0120-81-0036
 Internet International www.ti.com/sc/jpic
 Domestic www.tij.co.jp/pic

Asia

Phone
 International +886-2-23786800
 Domestic [Local Access Code](http://www.ti.com/sc/jpic)
 Australia 1-800-881-011 -800-800-1450
 China 00-800-8800-6800 -
 Hong Kong 800-96-1111 -800-800-1450
 India 000-117 -800-800-1450
 Indonesia 001-801-10 -800-800-1450
 Korea 001-800-8800-6800 -
 Malaysia 1-800-800-011 -800-800-1450
 New Zealand 000-911 -800-800-1450
 Philippines 105-11 -800-800-1450
 Singapore 800-0111-111 -800-800-1450
 Taiwan 080-006800 -
 Thailand 0019-991-1111 -800-800-1450
 Fax 886-2-2378-6808
 Email tiasia@ti.com
 Internet www.ti.com/sc/apic

B050200

Important Notice: The products and services of Texas Instruments and its subsidiaries described herein are sold subject to TI's standard terms and conditions of sale. Customers are advised to obtain the most current and complete information about TI products and services before placing orders. TI assumes no liability for applications assistance, customer's applications or product designs, software performance, or infringement of patents. The publication of information regarding any other company's products or services does not constitute TI's approval, warranty or endorsement thereof.

Power+, Power+ Logic, Power+ Arrays and the red/black banner are trademarks of Texas Instruments.



© Copyright 2000 Texas Instruments Incorporated

♻️ Printed on recycled paper

Printed in U.S.A. by _____, Dallas, TX

SLIC003A