

Must-Have Products

must
have



Product Reference Guide

Device	Description	Package(s)
Power Management		
Switching Regulators		
TL2575HV-ADJ	1-A, 60V Simple Step-Down Switching Regulator	PDIP (N 6.35 X 19.3), TO-220 (KV 8.38 X 10.17) TO-263 (KTT 8.42 X 10.16)
TPS61097-33	0.9V _{IN} , 3.3V _{OUT} Boost Converter with Bypass Switch	SOT (DBV 2.90 X 2.80)
MC33063A	1.5-A Peak Boost/Buck/Inverting Switching Regulator	PDIP (P 6.35 X 9.81), SOIC (D 3.91 X 4.90), QFN (DRJ 4.00 X 4.00)
TPS40200	Wide-Input Non-Synchronous Buck DC/DC Controller	SOIC (D 4.90 X 6.00), QFN (DRB 3.00 X 3.00)
TPS40210	Wide-Input Range Current Mode Boost Controller	VSSOP (DGK 3.00 X 4.90), QFN (DRC 3.00 X 3.00)
TPS54160	3.5V to 60V, 1.5A Step-Down SWIFT™ Converter with Eco-mode™	VSSOP (DGK 3.00 X 4.90), QFN (DRC 3.00 X 3.00)
TPS54331	3A, 28V Input, 570 kHz Step-Down SWIFT™ DC/DC Converter with Eco-mode™	SOIC (4.90 x 6.00)
LDO		
TPS7A4501	Single-Output LDO, 1.5A, Adj., Low Noise, Fast Transient Response	TO-263 (KTT 8.42 X 10.16)
TPS73401	Single-Output LDO, 250mA, Adj., Low-Quiescent Current, Low Noise, High PSRR	SON (DRV 2.00 X 2.00)
Voltage References		
TL4050	Precision Micropower Shunt Voltage Reference	SOT-23-3 (DBZ 1.30 X 2.92), SC-70 (DCK 1.25 X 2.00)
REF3325	2.5V 4ppm/°C, 100uA SOT23-6 Series (Bandgap) Voltage Reference	SOT23-3 (DBZ 2.92 X 2.37), SC70-3 (DCK 2.00 X 2.10)
Load Switches		
TPS22922B	Low Input Voltage, Ultra-Low r _{ON} Load Switch	WCSP (YZP/YFP 1.40 X 0.90)
TPS22945	Low-Input V _{IN} Current-Limited Load Switch w/Shut-Off, Auto-Restart Features	SC-70 (DCK 2.15 X 2.40)
TPS22960	Low Input Voltage, Dual Load Switch w/Controlled Turn-On and Quick Output Discharge	SOT (DCN 2.90 X 2.80)
LED Drivers		
TLC5927	16-Bit Constant-Current LED Sink Driver	HTSSOP (PWP 4.40 X 7.80), SSOP/QSOP (DBQ 6.20 X 8.75), SOIC (DW 7.52 X 15.40)
TLC59025	Low-Power 16-Channel Constant-Current LED Sink Driver	SSOP/QSOP (DBQ 6.00 X 8.65)
TLC59116	16-Channel Fm+ I ² C Bus Constant-Current LED Sink Driver	TSSOP (PW 6.40 X 9.70)
TLC59213	8-Channel Source Driver with Latch	PDIP (N 7.94 X 25.4), TSSOP (PW 6.40 X 6.50)
Power Monitor		
INA210	Voltage Output, High/Low-Side Measurement, Bidirectional Zero-Drift Series Current Shunt Monitor	QFN-10 (RSW 1.80 X 1.40), SC70-6 (DCK 2.00 X 2.10)
Supervisory Circuits		
TPS3809	3-Pin Supply Voltage Supervisor	SOT (DBV 2.90 X 2.80)
TPS382x	Processor Supervisory Circuit	SOT (DBV 2.90 X 2.80)
Op Amps		
TLV341	Low-Voltage, Rail-To-Rail Output CMOS Operational Amp w/ Shutdown	SOT-23 (DBV 1.60 X 2.90), SOT-563 (DRL 1.20 X 1.60), SC-70 (DCK 1.25 X 2.00)
LMV932	Dual 1.8-V Operational Amplifiers with Rail-To-Rail Input and Output	VSSOP (DGK 3.00 X 4.90), SOIC (D 4.90 X 6.00)
LMV715	Single Low-Power RRIO Operational Amplifiers with High Output Current Drive and Shutdown	SOT-23 (DBV 2.90 X 2.80), SC-70 (DCK 2.00 X 2.20)
TLV3491(/2/4)	Single/Dual/Quad Nanopower Push-Pull Output Comparator	SOT23-5 (DBV 2.90 X 2.80), SOT23-8 (DCN 2.90 X 2.80), SOIC-8 (D 4.90 X 6.00), SOIC-14 (D 8.65 X 6.00)
OPA376 (2376/4376)	Single/Dual/Quad Precision, Low Noise, Low Iq Operational Amplifier	SOT23-5 (DBV 2.90 X 2.80), SOIC-8 (D 4.90 X 6.00), SC70-5 (DCK 2.00 X 2.10), TSSOP-14 (PW 5.00 X 6.40)

Device	Description	Package(s)
Interface		
USB		
TUSB1105	Advanced Universal Serial Bus Transceiver	QFN (RGT/RTZ 3.00 X 3.00)
TUSB2551A	Advanced Universal Serial Bus Transceiver	TSSOP (PW 6.10 X 5.00), QFN (RGT 3.00 X 3.00)
RS-232		
TRS3243E	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver	TSSOP (PW 9.75 X 6.40), SSOP/QSOP (DB 10.20 X 7.80), SOIC (DW 17.90 X 10.30), QFN (RHB 5.00 X 5.00)
TRS3318E	2.5-V, 460-Kbps, RS-232 Transceiver	TSSOP (PW 6.50 X 6.40), SSOP/QSOP (DB 7.20 X 7.80)
TRSF3221E	3-V to 5.5-V Single-Channel RS-232 1-Mbit/s Line Driver/Receiver	TSSOP (PW 4.40 X 5.00), SSOP/QSOP (DB 5.30 X 6.20)
TRS3386E	RS-232 Transceiver with Split Supply Pin for Logic Side	TSSOP (PW 4.40 X 6.50), SSOP/QSOP (DB 5.30 X 7.20)
ESD		
TPD12S520	HDMI Receiver Port Protection and Interface Device	TSSOP (DBT 4.40 X 9.70)
TPD8S009	8-Channel ESD Solution for HDMI/DisplayPort	SON (DSM 6.50 X 2.50)
TPD4S012	4-Channel USB ESD Solution with Power Clamp	UQFN (DRY 1.45 X 1.00) WCSP (YFP 0.77 X 1.17)
UART		
TL16C2550	Dual Channel 16-Byte FIFO UART	TQFP-48 (PFB 9.00 X 9.00), QFN-32 (RHB 5.00 X 5.00)
Performance Signal Switches		
Analog Switches and Multiplexers		
TS5A22364	0.65-Ω Dual SPDT Analog Switch with Negative Rail Capability	VSSOP (DGS 3.00 X 3.00), VSON (DRC 3.00 X 3.00), WCSP (YZP 1.40 X 1.90)
TS5A9411	10-Ω SPDT Analog Switch	SC-70 (DCK 1.25 X 2.00)
TS3A44159	0.45-Ω Quad SPDT Analog Switch Quad-Channel 2:1 Multiplexer/Demultiplexer with Two Controls	TSSOP (PW 5.00 X 6.40), SSOP/QSOP, (RGT 3.05 X 3.05), UQFN (RSV 2.60 X 1.80)
TS12A4514	Low-Voltage, Low On-State Resistance SPST CMOS Analog Switches	PDIP (P 9.81 X 6.30), SOIC (D 4.90 X 6.00)
TS3A27518E	6-Bit, 1-of-2 Mux/Demux with 240 MHz Bandwidth	TSSOP (PW 6.40 X 7.80)
USB Switch		
TS3USB221A	ESD Protected, High-Speed USB 2.0 (480-Mbps) 1:2 Multiplexer/Demultiplexer Switch	UQFN (RSE 1.50 X 2.00)
Translation		
SN74AUP1T97	Single-Supply Voltage Translator	SOT-23 (DBV 2.90 X 2.80), SC-70 (DCK 2.00 X 2.20), WCSP (YZP 1.40 X 1.90)
TXS0104E	4-Bit Bidirectional Voltage-Level Translator for Open-Drain Applications	TSSOP (PW 4.40 X 5.00), SOIC (D 3.91 X 8.65), WCSP (YZP/YZT 1.40 X 1.90), UFBA (GXU/ZXU 2.50 X 2.00), QFN (RGY 3.50 X 3.50)
TXB0108	8-Bit Bidirectional Voltage-Level Translator with Auto Direction Sensing	TSSOP (PW 4.40 X 6.50), UFPGA (GXU/ZXU 3.00 X 2.50), QFN (3.50 X 4.50)
AVC16T245	16-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation and 3-State Outputs	TVSOP (DGV 9.70 X 6.40), TSSOP (DGG 12.50 X 8.10), VFBGA (GQL/ZQL 7.00 X 4.50)
I²C		
PCA9517	Level-Translating I ² C Bus Repeater	VSSOP (DGK 3.00 X 4.90), SOIC (D 3.91 X 4.90)
P82B96	Dual Bidirectional Bus Buffer	TSSOP (PW 4.40 X 3.00), PDIP (P 9.81 X 6.35), SOIC (D 3.91 X 4.90)
TCA6507	Low-Voltage, 7-Bit, I ² C and SMBus LED Driver w/Intensity Control and Shutdown	TSSOP (PW 4.40 X 5.00), UFPGA (GXU/ZXU 2.50 X 2.00), QFN (RUE 1.40 X 2.00)
TCA4311	Hot Swappable 2-Wire Bus Buffers	VSSOP (DGK 3.00 X 4.90), SOIC (D 3.91 X 4.90)
TMP75	Digital Temperature Sensor with 2-Wire Interface	SOIC-8 (D 4.90 X 6.00), MSOP-8 (DGK 3.00 X 4.90)

Availability: TI has the largest dedicated machine capacity for Must-Have products.

All dimensions in millimeters (mm)

Pricing: TI offers competitive pricing in all market conditions.

Obsolescence: TI rarely obsoletes devices, and offers the most generous LTB conditions in the industry. (www.ti.com/ltb)

Free samples are available for all Must-Have Parts, to order please visit: www.ti.com/musthave