



2026

SEMICONDUCTOR CATALOG

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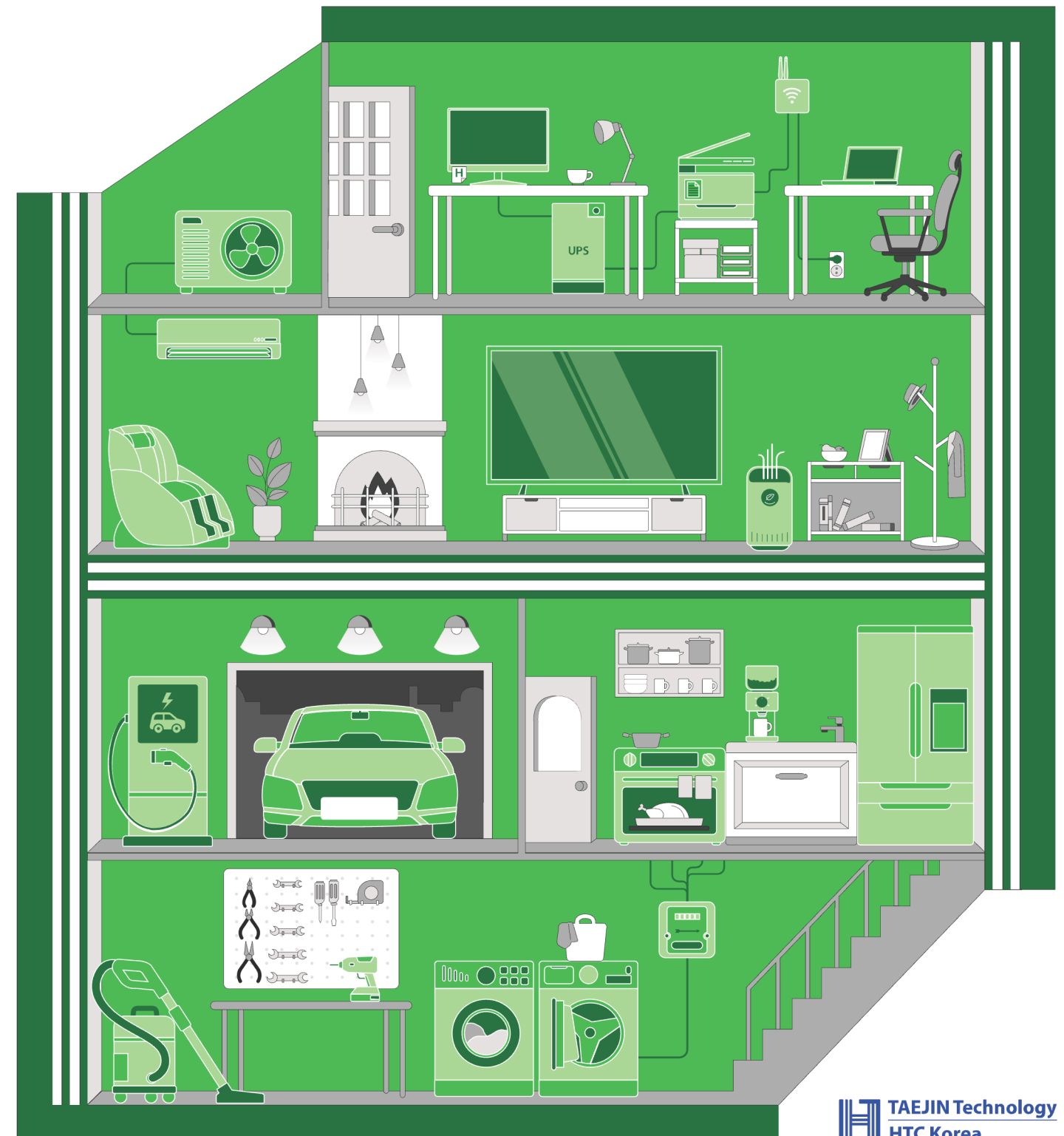
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PROMO VIDEO



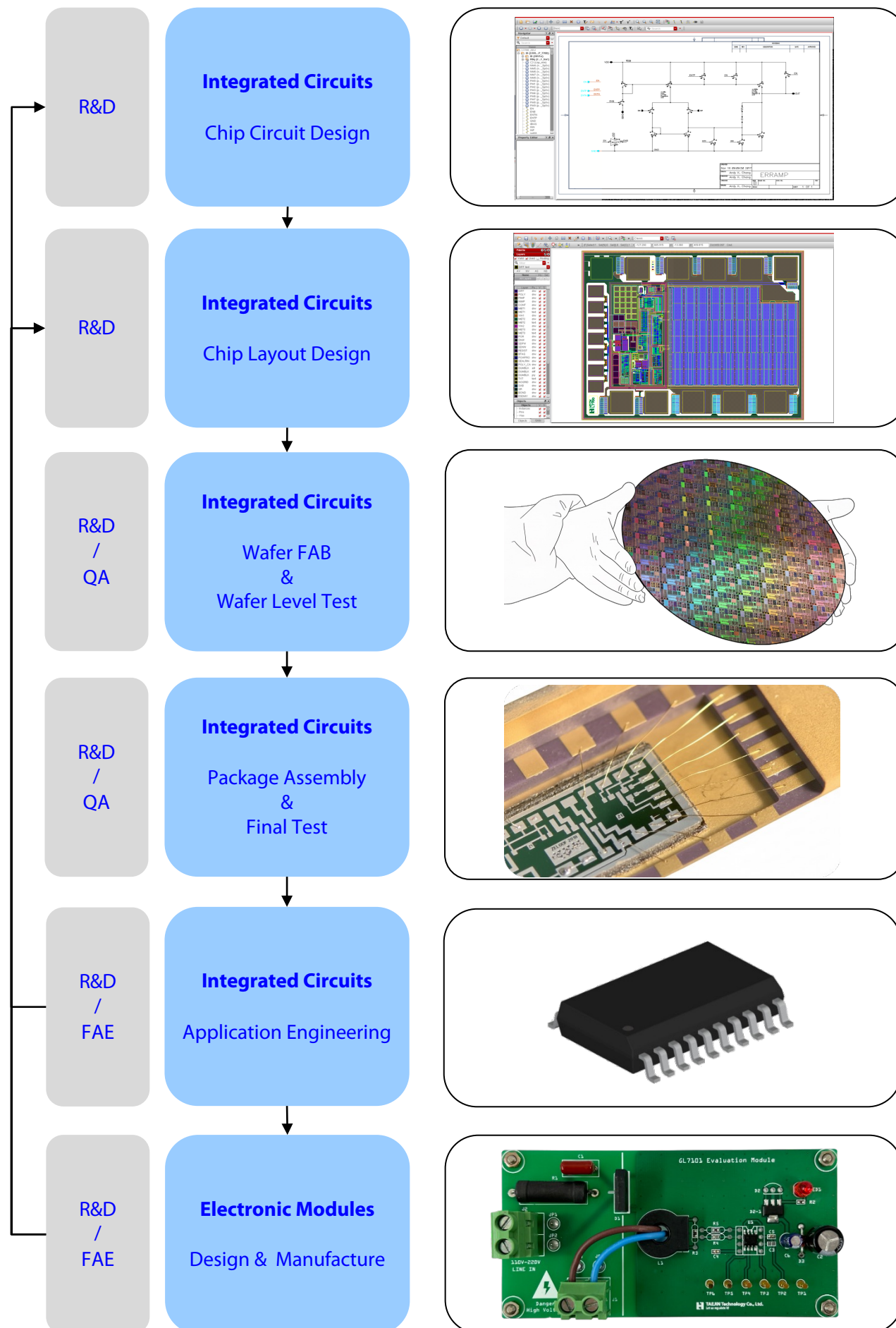
 **TAEJIN Technology Co., Ltd.**
Let us regulate it!

WEB



 **TAEJIN Technology**
HTC Korea

PRODUCTION PROCEDURE



HIGH QUALITY POWER ICs

Reliable Power Supply Systems with High Quality Power ICs

TAEJIN Technology, a power management IC specialist, has been focused on developing linear and switching power ICs and peripherals for power systems of various electronic systems for years and has achieved highly reliable cost-effective power system operation.

Power ICs & Peripherals Line-Up

- Full Line-Up of Linear Regulators
- High Voltage Non-Sync DC-DC Converters
- DC-DC Converter Controllers
- RS-232/ RS-485 Interface ICs
- Logics & Drivers
- Amplifiers, Comparators and other Peripherals

Full Quality and Supply Chain Control

- Verified Control Plan for Manufacturing
- Qualified by JESD22 Quality Assurance Test
- Qualified by AEC-Q100 Qualification
- Industry Leading Manufacturing Partners
- Sub-Contractor Control Based on BCP
- Experienced Failure Analysis Engineering

Leading Technology

- In-House Silicon Proven Precision Analog IPs
- Domestic & International Patents
- Capable of Application Specific Custom ICs

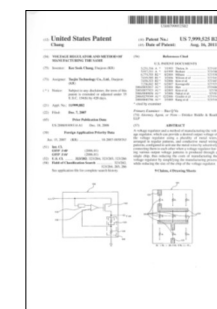
Full System Level Support

- Experienced Field Application Engineering
- Comprehensive Application Support
- Design, Test and Evaluation Support

INTERNATIONAL PATENTS



KOREA Patents



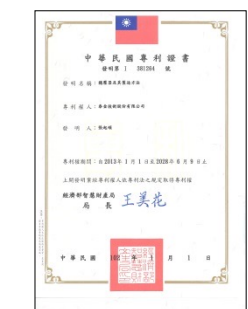
US Patents



JAPAN Patents



CHINA Patents



TAIWAN Patents

ENVIRONMENTAL DECLARATIONS



RoHS Compliance



Non-use of PFOS, PFOA, DMF



REACH Compliance



Halogen-Free
(only for Green Items)

DOMESTIC REGISTERED PATENTS (KOREA)

- 10-0442936: Regulator circuit for generating of stability voltage
- 10-0456194: Regulator circuit for generating of stability voltage
- 10-0523799: Regulator circuit for generating of stability voltage
- 10-0617966: Switching control regulator circuit for generating of stability voltage
- 10-0665454: Switching control regulator circuit for generating of stability voltage
- 10-0813200: Regulator circuit for generating of stability voltage
- 10-0836529: Regulator circuit for generating of stability voltage
- 10-0900266: Overheat protection circuit of a regulator
- 10-0900267: Sub-1V output Voltage regulator of ultra low dropout type
- 10-0902084: Voltage regulator and fabrication method thereof
- 10-0930275: Band Gap Reference Using CMOS
- 10-1184994: Fusing circuit
- 10-1247219: Current limit circuit
- 10-1268314: Waveform generator
- 10-1299212: LED Switching Driver
- 10-1301260: Soft Start Circuit
- 10-1306865: High Voltage IC
- 10-1306866: Circuit for Preventing a Miss-operating by Reverse Current Detector
- 10-1319827: Current Limit Apparatus
- 10-1414712: DC-DC Converter System
- 10-1447189: Level Shifter
- 10-1453005: Apparatus for Driving Light Emitting Diode
- 10-1453003: DC-DC Converter
- 10-1461066: Current Control Signal Generator
- 10-1475740: Waveform Generator
- 10-1532241: Waveform Generator
- 10-1630600: Voltage regulator having overcurrent protection circuit
- 10-1741170: Voltage regulator having overcurrent protection circuit
- 10-1696403: Soft Start Circuit of Switching Regulator
- 10-1773814: Reverse Current Protection Circuit of Switch Device
- 10-2001449: Soft-start circuit with hiccup operation and power converting apparatus including the same
- 10-2005044: Switching regulator using ESR emulation
- 10-2103998: Multi-functional enable circuit capable of variation function with hysteresis characteristics using a current-source
- 10-2207264 : Reference Voltage Generator

INTERNATIONAL REGISTERED PATENTS

USA

- US 7,629,783 B2: Ultra Low Dropout Voltage Regulator
- US 7,999,525 B2: Voltage Regulator and Method of Manufacturing the Same

CHINA

- 705345: 超低压降型电压调节器
- 1049457: 电压调节器其制造方法

TAIWAN

- 381264: Voltage Regulator and Method of Manufacturing the Same
- 373699: Ultra Low Dropout Voltage Regulator

JAPAN

- 2007301057: 超低压降下型電圧レギュレーター

AEC-Q100 QUALIFICATION

AEC-Q100	AEC-Q101	AEC-Q200
Qualification for Integrated Circuits (ICs)	Qualification for Discrete Semiconductors (Transistor/Diode, etc)	Qualifications for Passive Components (Resistor/Capacitor, etc)

AEC-Q100 is the reliability evaluation standard for integrated circuits (ICs).
The standard specifies 4 grades according to available temperature range.
The standard is suitable for evaluating automotive semiconductors that require high reliability.

Grade Level	Ambient Operating Temperature Range
GRADE 0	-40°C to +150°C
GRADE 1	-40°C to +125°C
GRADE 2	-40°C to +105°C
GRADE 3	-40°C to +85°C

AUTOMOTIVE APPLICATIONS

Grade Level	Category	Applications
Power Supplies for Automotive System	Infotainment	- Car Navigation, ITS/GPS, Connectivity Audio, Car Stereo - Cluster, Rear-Seat Monitor, Drive Recorder, T-Box
	Convenience	- HAVC (Heating, Ventilation, and Air Conditioning) - ADAS, Roof Control, Seat Control, Charger, Car Lighting
	Body	- Power Door, Power Window, Mirror Control

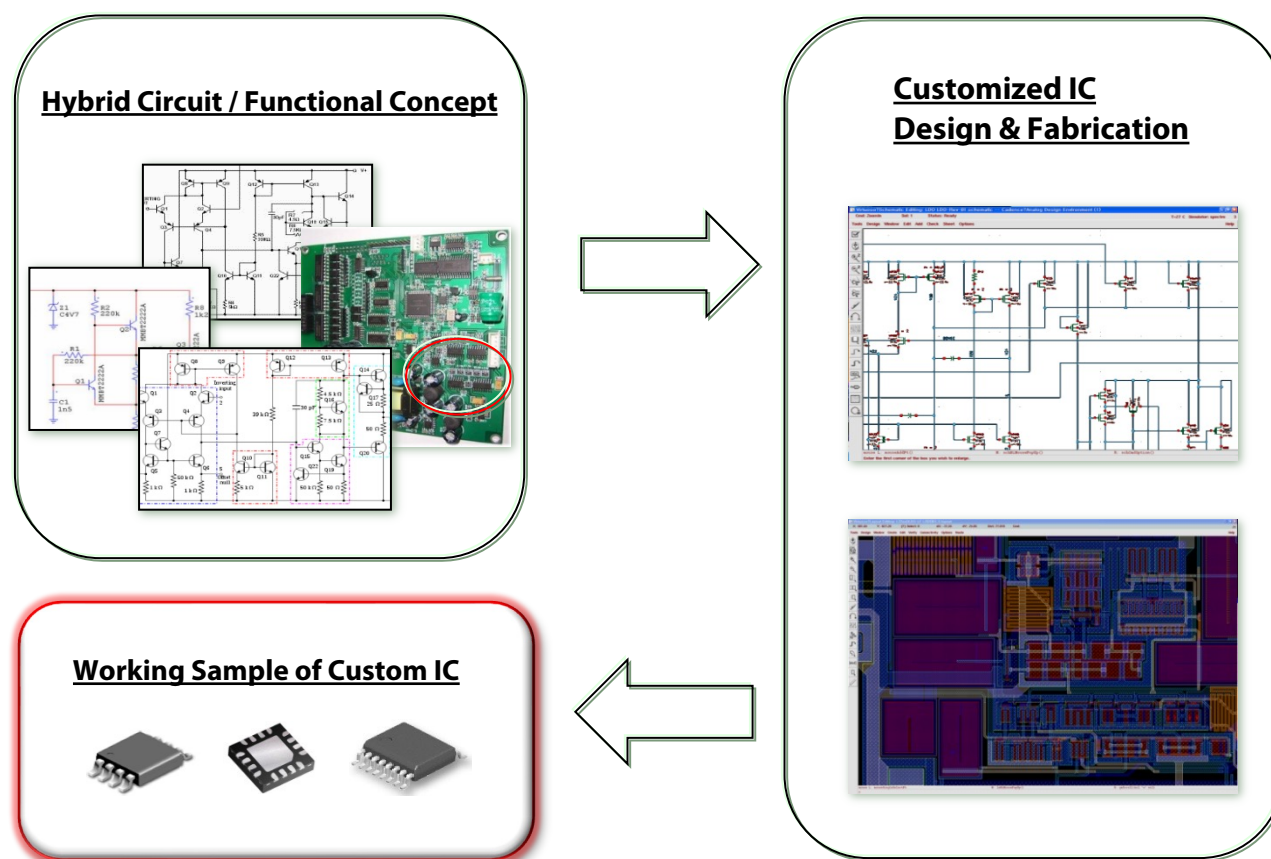
AEC-Q100 QUALIFIED PRODUCTS

Device Name	CH.	V _{OUT} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TJ4303GSF5-xx-Q1	Single	ADJ	5.5	0.3	0.20	0.10	SOT-23-5L
TJ4310GDP-xx-Q1	Single	ADJ	5.5	1.0	0.35	0.15	SOP-8PP
TJ4310GQ-xx-Q1	Single	ADJ	5.5	1.0	0.35	0.15	DFN2x3-8
TJ5641GDP-xxxx-Q1	Dual	1.0~3.3	5.5	0.6	0.24	0.14	SOP-8PP
TJ5205DP-xx-Q1	Single	ADJ/2.0~8.5	16	0.15	0.165	0.12	SOP-8PP
TJ5205SF5-xx-Q1	Single	ADJ/2.0~8.5	16	0.15	0.165	0.12	SOT-23-5L
TJ4320GQ-xx-Q1	Single	ADJ	5.5	2.0	0.40	0.20	DFN2x3-8

Device Name	Standards	A _{VIN} [V]	P _{VIN} [V]	V _{DDQ} [V]	V _{OUT} [V]	I _{SINK} & I _{SOURCE} [A]	PKG
TJ2998GDP-Q1	II/III/III/IV	3.0 ~ 5.5	0 ~ 2.0	1.2 ~ 1.8	V _{TT} / V _{REF}	2.0(Cont.) / 3.0(Peak)	SOP-8PP

Device Name	V _{OUT} [V]	V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [KHz]	PKG
LM2576DP-xx-Q1	ADJ / 3.3 / 5.0 / 12 / 15	1.230	40	3.0	52	SOP-8PP
LM2576HVP-xx-Q1	ADJ / 3.3 / 5.0 / 12 / 15	1.230	60	3.0	52	SOP-8PP

CUSTOM IC DEVELOPMENT : LDO VARIATIONS



SILICON-PROVEN PRIMITIVE IPs for CUSTOM ICs

- * Bandgap References
 - CMOS BGR/ High PSRR CMOS BGR/ Low Voltage CMOS BGR
- * Low Input Voltage Reference Generator
- * Ramp Generator/ Multiple Ramp Generator with Adjustable Phase Shift
- * Current Limiter
 - Constant Current Limiter/ Foldback Current Limiter/ Cycle by Cycle Current Limiter
- * Reverse Current Protection for Power Distribution Switches and DC-DC Converters
- * Internal Fixed Soft Start/ Programmable Soft Start with External Components
- * Under Voltage Lock Out with/without Deglitch
- * Over Temperature Protection/ Short Circuit Protection
- * Power Good Monitor with/without Deglitch
- * Wave Generator
 - Adjustable Oscillator/ Clock Generator
 - Ramp Generator/ Multi-Ramp Generator with Phase shift
- * Bootstrap using MOS Switch for High Side NMOS Switch for DC-DC Converter
- * Other Primitives as 2-Stage AMPs/Folded Cascode AMPs/High Speed Comparators/ etc.

➔ All IPs for Power ICs are designed, verified and "modularized" for fast design Turnaround. These proven IPs are the core of competitiveness not only for custom IC service but also for high reliability and effective design optimization of catalog products.

ELECTRONIC MODULES

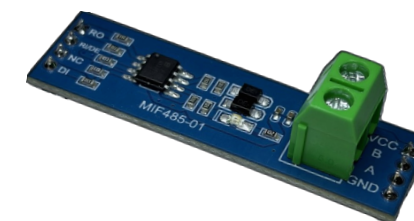
High-quality electronic modules are designed and produced using our own proprietary ICs.

Power Modules

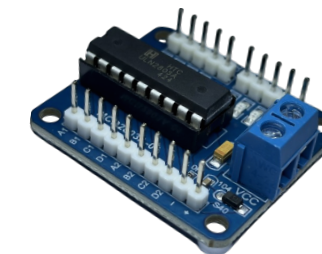


Other Electronic Modules

Interface Modules



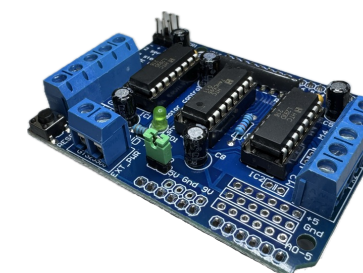
Current Driver Modules



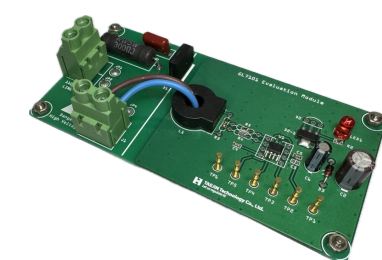
Timer Modules



Add On Expansion Shields



Evaluation Modules



CUSTOMIZED ELECTRONIC MODULES

High-quality electronic modules are designed and produced using our own proprietary ICs.

Custom electronic modules for application-specific demands can also be designed and produced.

In addition to standard modules, we also offer:

Custom Power Modules based on our own in-house designed proprietary Power ICs

Application-Specific Designs optimized for customer requirements

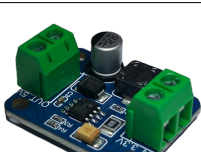
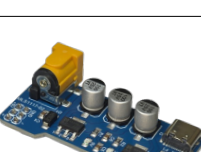
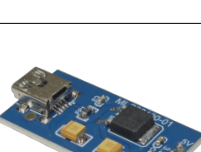
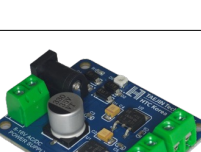
Flexible Input/Output Configurations to match unique system needs

Compact and Reliable Solutions for space-constrained or high-performance applications

Collaborative Development to ensure cost-effective and time-efficient results

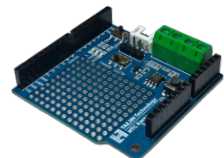
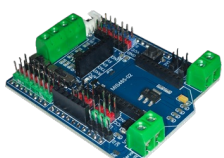
PRODUCTS (Modules)

Power Modules

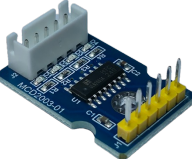
	MBC2596-01 : LM2596 Buck Converter Module <ul style="list-style-type: none">• Input voltage range: DC 4V to 35V• Output voltage range: 1.25V to 30V DC voltage is continuously adjustable• Output current: Rated current 2A, maximum 3A. (Heat sink required.)
	MBC2596HV-01 : LM2596HV Buck Converter Module <ul style="list-style-type: none">• Input voltage range: DC 4V to 55V• Output voltage range: 1.25V to 35V DC voltage is continuously adjustable• Output current: Rated current 2A, maximum 3A. (Heat sink required.)
	MBC2596-02 : 4 Channel Step-Down Converter Module <ul style="list-style-type: none">• Input voltage range: DC 13.5V to 30V• Output voltage: 3.3V, 5.0V, 12V, ADJ(2V to 30V)• Output current: Rated current 2A, maximum 3A. (Heat sink required.)
	MBC2576-01 : LM2576 Buck Converter Module <ul style="list-style-type: none">• Input Voltage Range: AC 7V to 23V or DC 6V to 32V• Output Voltage: 1.8V, 2.7V, 3.3V, 4.0V, 5.0V, 12V• Output Current: Rated current 2A, maximum 3A. (Heat sink required.)
	MBS34063-01 : MC34063A Step-Up Converter Module <ul style="list-style-type: none">• Input Voltage: 3.3V• Output Voltage: 5.0V• Output Current: Max. 175mA
	MLS1117-01 : LM1117 3.3V/5.0V Power Supply Module <ul style="list-style-type: none">• Input Voltage Range: DC 6V to 12V (DC Jack) or 5.0V USB Powered• Output Voltage: Switchable 0V / 3.3V / 5.0V• Output Current: Max. 700mA
	MLS1117-02 : LM1117 3.3V/5.0V Power Module Type-C for Breadboard <ul style="list-style-type: none">• Input Voltage Range: DC 7V to 12V (DC Jack) or 5.0V USB Powered• Output Voltage: 3.3V / 5.0V• Output Current: Max. 700mA
	MLS39100-01 : LM39100 USB Powered Regulator Module <ul style="list-style-type: none">• Input Voltage Source: 5.0V USB Powered• Output Voltage: 3.3V / 5.0V• Output Current: Max. 500mA
	MLS39100-02 : LM39100, LM7805 3.3V/5.0V Regulator Module <ul style="list-style-type: none">• Input Voltage Range: AC/DC 8V to 16V• Output Voltage: 3.3V / 5.0V• Output Current: Max. 500mA

PRODUCTS (Modules)

Add-On Modules

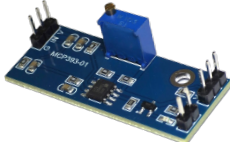
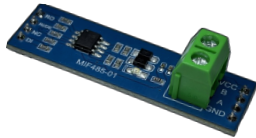
	MMS0293-01 : L293D Motor Shield <ul style="list-style-type: none">• 4 H-Bridges: L293D chipset provides 0.6A per bridge (1.2A peak)• Up to 4 bi-directional DC motors with individual 8-bit• Tested compatible with Arduino Mega, Diecimila, Duemilanove, and UNO
	MIS0485-01 : MAX485 Arduino Shield Module <ul style="list-style-type: none">• Data Rate: 5Mbps• 16 digital IO port (including a I2C interface)• Operation/programming mode switch
	MIS0485-02 : MAX485 IO Expansion Arduino Shield Module <ul style="list-style-type: none">• Data Rate: 5Mbps• Support Seperate Servo Power Supply• Support Xbee / Bluetooth / APC220
	MXS1117-01 : LM1117 Bluetooth Expansion Shield Module for Arduino <ul style="list-style-type: none">• Recommended Vcc Voltage: DC 5.0V• Compatible with Xbee

Other Electronic Modules

	MCD2003-01 : ULN2003 Stepper Motor Driver Module <ul style="list-style-type: none">• Recommended Input Voltage: DC 5.0V• Output Breakdown Voltage: 50V• Output Current: 500mA
	MCD2803A-01 : ULN2803A Stepper Motor Driver Module <ul style="list-style-type: none">• Recommended Input Voltage: DC 5.0V• Output breakdown voltage: 50V• Output current: 500mA
	MCD2803A-02 : ULN2803A Stepper Motor Driver Module <ul style="list-style-type: none">• Recommended Input Voltage: DC 5.0V• Output breakdown voltage: 50V• Output current: 500mA
	MCD0293-01 : Stepper Motor Driver <ul style="list-style-type: none">• Input voltage range: DC 6V to 25V• Output Peak Current: 1.2A / Channel• Output Current: 600mA / Channel

PRODUCTS (Modules)

Other Electronic Modules

	MTM555-01 : NE555 Pulse Generator Module
<ul style="list-style-type: none">• Supply Voltage Range: 5V to 15V• Output Voltage: 4.2V to 11.4V• Output Current: Max. 15mA to 35mA	
	PWM555-01 : Voltage to PWM Convertor Module
<ul style="list-style-type: none">• Supply Voltage Range: 7V to 12V• Conversion Range: 0-5V/0-10V voltage conversion to 0%-100% PWM• Accuracy: 1% to 3%	
	MOP358-01 : LM358 Operational Amplifier Module
<ul style="list-style-type: none">• Supply Voltage Range: 5V to 12V• Onboard potentiometer for adjustable gain	
	MOP386-01 : LM386 Audio Amplifier Module
<ul style="list-style-type: none">• Supply Voltage Range: 5V to 12V• On-Board Speaker Wiring Connector• Max Gain: 200	
	MCP393-01 : LM393 Voltage Comparator Module
<ul style="list-style-type: none">• Supply Voltage Range: 4.5V to 28V• Adjustable Reference Voltage	
	MIF485-01 : RS-485 Transceiver Module
<ul style="list-style-type: none">• Recommended Input Voltage: DC 5.0V• Data Rate: 5Mbps• TTL to RS-485 Level Conversion Transceiver	
	MIF3485-01 : RS-485 Transceiver Module
<ul style="list-style-type: none">• Recommended Input Voltage: DC 3.3V• Data Rate: 10Mbps• TTL to RS-485 Level Conversion Transceiver	
	MIF232-01 : RS232 Interface Module
<ul style="list-style-type: none">• Recommended Vcc Voltage: DC 5.0V• TTL to RS-232C Standard Conversion Transceiver	
	GL7101EVM : GL7101 Evaluation Module
<ul style="list-style-type: none">• Fully populated board to evaluate earth leakage current detector IC• Supply voltage range: 110VAC to 220VAC.• Trip Current: 39 mA RMS to 48 mA RMS	

PRODUCTS (Modules)

Device Name	Feature	Utilized IC
MLS1117-03	Multi-Output LDO Module	LM7805RS/ LM1117GS-3.3/ -2.5
MLS1117-04	Very Small LDO Module	LM1117GS-5.0
MLS1117-05	LDO Module for Breadboard	LM1117GS-3.3
MLS1117-06	USB Power Supply Module for Breadboard	LM1117GS-ADJ
MLS1117-07	Micro bit Power Adapter Board	LM1117GS-3.3
MLS1117-08	Adjustable Regaultor Module	LM1117GS-ADJ
MLS1117-09	3.3V Regaultor Module	LM1117GS-3.3
MLS317-01	Adjustable Regulator Module	LM317S
MLS7805-01	5V LDO Module	LM7805RS
MLS7805-02	AC-DC 5V LDO Module	LM7805T
MLS7805-03	Power Module for Mercury System	LM7805R
MLS7805-04	Dual Power Supply Board Module	LM7805RS / LM1117GS-3.3
MLS7805-05	USB Multi Voltage Power Supply Module	LM7805RS / LM1108SF-3.3, -2.5, -1.8
MLS7805-06	USB Power Supply Module	LM7805RS / LM1117GS-3.3
MLS2985-01	Regulator Module for XBee	LP2985SF5-3.3
MLC2575-01	Fixed Type Step-Down Converter Module	LM2575GR-5.0
MBC2576-02	5V or 12V Step-Down Converter Module	LM2576T-ADJ
MBC2596-04	Fixed Type Step-Down Converter Module	LM2596R-5.0
MBC2596-05	Adjustable Step-Down Converter Module	LM2596R-ADJ/ LM78L05F/ TJ358GD
MBC2596-06	Easy Switch Step-Down Converter Module	LM2596R-ADJ
MBC2596-07	5.0V Dual Output LDO / DC-DC Module	LM2596R-5.0 / LM7805RS
MBC2576HV-01	AC-DC Step-Down Converter Module	LM2576HVT-ADJ
MBC2576HV-02	Adjustable Step-Down Converter Module	LM2576HVR-ADJ
MBC2596HV-02	Adjustable Step-Down Converter Module	LM2596HVGDP-ADJ
MBC2596HV-03	5V / 12V Output Step-Down Converter Module	LM2596HVGDP-ADJ
MBC1501B-01	Adjustable 5A Step-Down Converter Module	LM1501BGR-ADJ
MBC1501B-02	Dual Output Step-Down Converter Module	LM1501BGR-ADJ
MBS34063-02	DC-DC Converter Module for Breadboard	LM1117GS-3.3, 1.5 / MC34063AGD
MBS34063-03	Step-Up Converter Module	MC34063AGD
MXS1117-02	Xbee Shield for Arduino	LM1117GS-3.3
MIS0485-03	RS-485 Shield for Raspberry Pi	MAX485ED
MCS0595-01	Shiftout Module	74HC595D
MIS0232-01	RS232 Shield for Arduino	MAX232ED
MAS0386-01	Audio shield for Arduino	LM386D
MRS1117-01	Extention board for Arduino Nano	LM1117GS-3.3
MRS2940-01	Education Shield for Arduino	LM2940T-5.0, LM1117GS-3.3
MCS0595-02	4-Digit 8 Segment Display Module for Raspberry Pi	74HC595D x 2pcs
MRS1117-02	Extention board for Arduino Nano	LM7805RS / LM1117GS-3.3
MMS0293-02	2x1A DC Motor Shield for Arduino	L293DN / 74HC00D
MMS1117-03	Printer Stepper Motor Driver CNC Shield	LM1117GS-3.3
MPS2596-01	Power Shield for Arduino	LM2596R-ADJ / TJ324GD
MRS7805-01	ARDUINO MKR2UNO ADAPTER	LM7805T
MIS0232-02	RS232 Shield Module for Arduino	TJ232ED
MIS0485-04	RS485 Shield Module for Arduino	MAX485ED
MIS3485-01	2ch RS-485 Shield for Raspberry Pi	MAX3485ED
MRS4576-01	Raspberry Pi Power HAT	LM4576R-5.0
MRS4576-02	Raspberry Pi Power HAT 2	LM4576R-5.0 / LM1117GS-3.3
MIS3232-01	RS232 Shield for Arduino (MAX3232)	MAX3232ED
MIS3232-02	RS232 Shield for Raspberry Pi (MAX3232)	MAX3232ED
MIS3232-03	RS232 Shield for Raspberry Pi (MAX3232)	MAX3232ED
MRS1117-03	ESP32-IO Shield for Arduino ESP32 Core Board	M1117GS-3.3
MRS7805-02	GPIO Expansion Board for Raspberry Pico	LM7805RS
MMS0293-03	Motor Shield Module for Arduino	L293N, ULN2003AD
MMS0293-04	Motor Shield Module for Arduino	L293N, 74HC595D
LED595-01	7-segment LED display module	74HC595D
LED595-02	7-segment LED display module	74HC595D
MOP358-02	Mono Preamplifier Module	LM358N
MPC494-01	Adjustable PWM Module	TL494GD
MCP393-02	Dual Comparator Module	TJ393GD
MIF232-02	RS232 Interface Module	TJ232ED
MIF3232-01	3.3V / 5.0V RS232 Interface Module	MAX3232ED
MIF3232-02	Xbee / RS232 Interface Module	MAX3232ED, LM1117GS-3.3
MIF3232-03	3.3V / 5.0V RS232 Interface Module	MAX3232ED
MIF3232-04	3.3V / 5.0V RS232 Interface Module	MAX3232ED
MIF3232-05	3.3V / 5.0V RS232 Interface Module	MAX3232ED

PRODUCT INDEX (ICs)

Application Specific Dual Channel CMOS ULDO (Ultra Low Drop Out) Voltage Regulator

TJ5641	600mA Dual Channel ULDO Voltage Regulator	SOP-8PP
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Ground Fault Circuit Interrupter

GL7101S	Earth Leakage Current Detector	SOP-8/ DIP-8
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Interface IC

TJ232E	RS-232 Transceiver	SOP-16/ TSSOP-16
MAX3232E	RS-232 Transceiver	SOP-16
MAX485E	RS-485/RS-422 Transceiver	SOP-8/ DIP-8
MAX3485E	RS-485/RS-422 Transceiver	SOP-8/ DIP-8

High Performance Linear Power IC

TPS7A4001	100V, 50mA Very High Voltage Linear Regulator	MSOP-8PP
TPS761xx	150mA Low Noise VLDO Voltage Regulator	SOT-23-5L
TPS73001	300mA Adjustable Output CMOS ULDO Voltage Regulator	SOT-23-6L
TPS730xx	300mA Fast Transient Fixed Output CMOS ULDO Voltage Regulator	SOT-23-5L
TPS740xx	600mA CMOS LDO Voltage Regulator	SOT-23-5L
TPS1117LVxx	1.0A Fixed Output ULDO Voltage Regulator	SOT-223-3L
TPS7A8001	1.0A Adjustable Output ULDO Voltage Regulator	DFN3x3-8
TPS7A7001	2.0A Adjustable Output ULDO Voltage Regulator	SOP-8PP
TPS7A7002	3.0A Adjustable Output ULDO Voltage Regulator	SOP-8PP
TPS7A4501	1.5A High Input Voltage Adjustable Output VLDO Voltage Regulator	TO-263-5L
TPS75701	3.0A High Input Voltage Adjustable Output VLDO Voltage Regulator	TO-263-5L
TPS75501	5.0A High Input Voltage Adjustable Output VLDO Voltage Regulator	TO-263-5L
TPS2553D	Single Adjustable Current Limit up to 2.25A Power Distribution Switch	SOT-23-6L
LP2998	DDR Memory Termination Voltage Regulator (MLCC Applicable)	SOP-8PP

60V Operative Non-Synchronous DC/DC Converter

LM2575HV	1.0A Step-Down Voltage Regulator (52KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L
LM2591HV	1.0A Step-Down Voltage Regulator (150KHz)	TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2592HV	2.0A Step-Down Voltage Regulator (150KHz)	TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2576HV	3.0A Step-Down Voltage Regulator (52KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2596HV	3.0A Step-Down Voltage Regulator (150KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L

CMOS ULDO (Ultra Low Drop Out) Voltage Regulator (Low ESR MLCC Applicable)

TJ9198	300mA Low Input Low Output, Low Quiescent CMOS LDO	DFN1x1-4/ SC-70-5L/ SOT-23-3/-5L
TJ4303	300mA ULDO Voltage Regulator	SOT-23-5L
LM1108	300mA CMOS LDO Regulator	SOT-23-3L/ SOT-89-3L
LM8805	600mA CMOS LDO Regulator	SOT-23-5L/ SOT-89-3L
TJ1119C/F	1.0A ULDO Fixed Output Voltage Regulator	SOT-223-3L/ TO-252-3L
TJ1801	1.0A ULDO Voltage Regulator	SOP-8PP
TJ4310	1.0A ULDO Voltage Regulator	SOP-8/-8PP/ SOT-89-5L/ DFN2x3-8
LD39150	1.5A ULDO Voltage Regulator	TO-252-5L
TJ2132	Sub-1V Output Low Vin 2.0A ULDO Voltage Regulator	SOP-8PP/ DFN3x3-8
TJ4320	2.0A ULDO Voltage Regulator	SOP-8PP/ TO-252-5L
TJ4330	3.0A ULDO Voltage Regulator	SOP-8PP/ TO-252-5L
TJ2134/A	Sub-1V Output Low Vin 4.0A ULDO Voltage Regulator	SOP-8PP

VLDO (Very Low Drop Out) Voltage Regulator

TJ75xxA	100mA CMOS Low Dropout Regulator	SOT-89-3L/ SOT-23-5L
LM2950/1	100mA LDO Voltage Regulator	TO-92/ SOP-8/ SC-70-5L
LM2950G	100mA LDO Voltage Regulator	TO-92/ SC-70-5L
LP2981	100mA Low Noise & High PSRR LDO Regulator	TO-92/ SOT-23-5L
TJ5205	150mA Low Noise & High PSRR LDO Regulator	SOT-23-5L/ SOP-8/ SOP-8PP
LP2985	150mA Low Noise & High PSRR LDO Regulator	SOT-23-5L
LM9076	150mA Low IQ LDO with Delayed Reset Output	SOP-8/ TO-263-5L
TJ62FPxx	250mA Low Dropout Voltage Regulator	SOT-23-3L/ SOT-89-3L
TJ75xx	250mA CMOS Low Dropout Regulator	TO-92/ SOT-89-3L
LP2954	250mA LDO Voltage Regulator	TO-92/ TO-263/ TO-220
LM2940 / LM2940H	1.0A High-Voltage LDO Regulator	SOT-223/ TO-263/ TO-220
LM2941	1.0A Adjustable LDO Regulator	TO-263-5L
LM3710x	1.0A High-Voltage Very Low-Dropout Voltage Regulator	SOP-8/ TO-252/ SOT-223
LM37102C	1.0A High-Voltage Very Low-Dropout Voltage Regulator (MLCC)	SOP-8/ SOP-8PP
LM3910x	1.0A High-Voltage Very Low-Dropout Voltage Regulator	SOT-223/ SOP-8/ TO-252
LM2915x	1.5A High-Voltage Very Low-Dropout Voltage Regulator	TO-252/ TO-263/ TO-220
LM3930x	3.0A High-Voltage Very Low-Dropout Voltage Regulator	TO-263/ TO-220
LM2930x	3.0A High-Voltage Very Low-Dropout Voltage Regulator	TO-263/ TO-220
LM39502	5.0A High-Voltage Very Low-Dropout Voltage Regulator	TO-263/ TO-220

OCP IC

TJ2242 / TJ2242A	Single Adjustable Current Limit USB Power Switch	SOT-23-6L
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Timer

NE555	CMOS General Purpose Timer	SOP-8/ DIP-8
SA555	Precision General Purpose Timer	SOP-8/ DIP-8

PRODUCT INDEX (ICs)

LDO (Low Drop Out) Voltage Regulator

LM1117	1.0A LDO Fixed & Adjustable Voltage Regulator	SOT-89-3L/ SOT-223/ TO-252
LM1117G	1.0A LDO Fixed & Adjustable Voltage Regulator	SOT-23/ SOT-223
LM1086	1.5A LDO Fixed & Adjustable Voltage Regulator	TO-252/ TO-263
LM1085	3.0A LDO Fixed & Adjustable Voltage Regulator	TO-252/ TO-263
LM1084	5.0A LDO Fixed & Adjustable Voltage Regulator	TO-252/ TO-263

Standard Linear Voltage Regulator

LM78Lxx	100mA Positive Fixed Voltage Regulator (5V~24V)	TO-92/ SOT-89-3L/ SOP-8
TJ78L05	100mA Positive Fixed Voltage Regulator (5V, MLCC Applicable)	SOT-89-3L
LM79Lxx	100mA Negative Fixed Voltage Regulator (-5V~-24V)	TO-92/ SOT-89-3L
LM317L	100mA Adjustable Voltage Regulator	TO-92/ SOT-89-3L/ SOP-8
LM79Mxx	500mA Negative Voltage Regulator	TO-220F-3L
LM317	1.5A 3-Terminal Adjustable Regulator	SOT-223/ TO252-3L/ TO-263-2L/-3L/ TO-220-3L
LM78xx	1.5A Positive Voltage Regulator	SOT-223/ TO-263-3L/ TO-220-3L/ TO-220F-3L
LM79xx	1.5A Negative Voltage Regulator	TO-220-3L/ TO-220F-3L

DDR Memory Termination Regulator (Sink/ Source Linear Regulator)

TJ2998	DDR Memory Termination Voltage Regulator (MLCC Applicable)	SOP-8/ SOP-8PP
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Converter & Controller

MC34063AG	1.5A Step-Up/Down (Inverting) Converter Controller	SOP-8/ DIP-8
MC34063CG	1.2A Step-Up/Down (Inverting) Converter Controller	SOP-8/ DIP-8
LM3842/3	Current Mode PWM Controller	SOP-8/ DIP-8
TL494	Pulse-Width-Modulation Controller	SOP-16/ DIP-16
TJ9910	Universal High Brightness LED Driver	SOP-8
TJ9910A	Universal High Brightness LED Driver	SOP-8
TJ7660	Charge Pump Voltage Converter	SOP-8/ DIP-8
TJ1051	Constant Voltage & Current Controller (Op-Amp + V _{REF})	SOP-8/ SOT-23-6L

Amplifier & Comparator

LM358G	Dual Operational Amplifier	TSSOP-8/ DIP-8
LM358W	Dual Operational Amplifier	SOP-8
TJ358GD	Dual Operational Amplifier	SOP-8
LM2904	Dual Operational Amplifier	SOP-8/ DIP-8
LM4558	Low Noise Dual Operational Amplifier	SOP-8/ DIP-8
TJ324GD, LM324N	Quad Operational Amplifier	SOP-14 for TJ324GD, DIP-14 for LM324N
LM2902	Quad Operational Amplifier	SOP-14 / DIP-14
OP07	Low Offset Precision Operational Amplifier	SOP-8/ DIP-8
TJ393GD, LM393GN	Dual Voltage Comparator	SOP-8 for TJ393GD, DIP-8 for LM393GN
TJ339GD, LM339N	Quad Voltage Comparator	SOP-14 for TJ339GD, DIP-14 for LM339N
LM386	Low Voltage Audio Power Amplifier	SOP-8/ DIP-8

Darlington Transistor Array

ULN2003A / 2004A	Darlington 7-Digit Transistor Arrays	SOP-16 / DIP-16
ULN2803A	Darlington 8-Digit Transistor Arrays	SOP-18/ DIP-18
ULN2803C	Darlington 8-Digit Transistor Arrays	SOP-20
TD62783A	Darlington 8-Digit Transistor Arrays	SOP-18/ DIP-18

Driver

CS8190	Precision Air-Core Tach/Speedo Driver with Return to Zero	SOP-20
L293D	Quadruple Half-H Driver	DIP-16

Voltage Reference

TL431/A/C	Programmable Precision Shunt Regulator(2.495V)	TO-92/ SOT-23-3L/ SOT-89-3L
LP431A/C	Low IKA Programmable Precision Shunt Regulator(2.500V)	SOT-23-3L
LM431/A	Programmable Precision Shunt Regulator(2.500V)	SOT-23-3L (Reverse Type)
TL432/A/C	Programmable Precision Shunt Regulator(1.240V)	TO-92/ SOT-23-3L
LM336	Programmable Shunt Regulator	TO-92/ SOP-8
LM385	Micropower Voltage Reference	TO-92/ SOP-8

Logic IC

74HC00 / 04 / 14	Quad 2 Input NAND / Hex Inverters / Hex Schmitt Inverters	SOP-14/ DIP-14
74HC595	8-bit Serial-In, Serial-/Parallel-Out Shift register /w output latches	TSSOP-16/ SOP-16/ DIP-16
CD4066B	CMOS Quad Bilateral Switch	SOP-14/ DIP-14
CD4069UB	CMOS HEX Inverters	SOP-14/ DIP-14
CD4081B	CMOS Quad 2-Input AND	SOP-14/ DIP-14
CD4093B	CMOS Quad 2-Input NAND Schmitt Trigger	SOP-14/ DIP-14

Non-Synchronous DC/DC Converter

LM2574	0.5A Step-Down Voltage Regulator (52KHz)	DIP-8/ SOP-14
LM2575G	1.0A Step-Down Voltage Regulator (52KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L
LM2576	3.0A Step-Down Voltage Regulator (52KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2596 / LM2596A / LM2596G	3.0A Step-Down Voltage Regulator (150KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM4576	3.0A Step-Down Voltage Regulator (300KHz)	SOP-8PP/ TO-263-5L/ TO-220-5L
LM1501AG / LM1501BG	5.0A Step-Down Voltage Regulator (150KHz / 300KHz)	TO-263-5L/ TO-220-5L
LM1938	0.65A Step-Up Switching Voltage Regulator (1.3MHz)	SOT-23-6L

: Products Under Development

PRODUCTS (ICs)

Application Specific Dual Channel CMOS ULDO (Ultra Low Drop Out) Voltage Regulator

Device Name	V _{OUT} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TJ5641 (Dual CH)	1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.3 (For both CH.)	2.5	5.5	CH1 : 0.6 CH2 : 0.6	0.24 (@I _{LOAD} =0.6A)	0.14	SOP-8PP

High Performance Linear Power IC

Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TPS7A4001	ADJ	0.8	7	100	0.05	2.8 (@I _{LOAD} =0.05A)	0.02	MSOP-8PP
TPS761xx	ADJ/ 2.0~8.5	1.242	2.5	16	0.15	0.165 (@I _{LOAD} =0.15A)	0.120	SOT-23-5L
TPS73001	ADJ	0.6	2.5	6.0	0.3	0.20 (@I _{LOAD} =0.3A)	0.10	SOT-23-6L
TPS730xx	0.8 ~ 3.6	Fixed	2.2	5.5	0.3	0.20 (@I _{LOAD} =0.3A)	0.035	SOT-23-5L
TPS740xx	ADJ/ 1.5 ~ 6.0	1.27	2.5	6.5	0.6	0.6 ~ 1.3 (@I _{LOAD} =0.6A)	0.050	SOT-23-5L
TPS1117LVxx	1.0/ 1.2/ 1.5/ 1.8/ 2.5/ 2.8/ 3.3	Fixed	2.5	5.5	1.0	0.40 (@I _{LOAD} =1.0A)	0.13	SOT-223-3L
TPS7A8001	ADJ	0.6	2.5	5.5	1.0	0.35 (@I _{LOAD} =1.0A)	0.15	DFN3x3-8
TPS7A7001	ADJ	0.6	2.5	5.5	2.0	0.40 (@I _{LOAD} =2.0A)	0.20	SOP-8PP
TPS7A7002	ADJ	0.6	2.5	5.5	3.0	0.40 (@I _{LOAD} =3.0A)	0.20	SOP-8PP
TPS7A4501	ADJ	1.24	2.25	26	1.5	0.35 (@I _{LOAD} =1.5A)	8	TO-263-5L
TPS75701	ADJ	1.24	2.25	16	3.0	0.40 (@I _{LOAD} =3.0A)	10	TO-263-5L
TPS75501	ADJ	1.25	2.25	16	5.0	0.40 (@I _{LOAD} =5.0A)	15	TO-263-5L

Device Name	Channel	Enable Control	V _{IN} [V]	I _{CC} [μA]	I _{CON_MAX} [A]	I _{LIMIT} [A]	R _{DS(on)} [mΩ]	PKG
TPS2553D	Single	High	2.8 ~ 5.5	90	1.5	ADJ (0.2 ~ 2.25)	100	SOT-23-6L

DDR Memory Termination Regulator (Sink/ Source Linear Regulator)

Device Name	Standards	A _{VIN} [V]	P _{VIN} [V]	V _{DDQ} [V]	V _{OUT} [V]	I _{SINK} & I _{SOURCE} [A]	PKG
LP2998	DDR-2/3/3L/4	3.0 ~ 5.5	0 ~ 2.0	1.2 ~ 1.8	VTT/ VREF	2.0 (Cont.) 3.0 (Peak)	SOP-8PP

Interface IC

Device Name	Interface	Supply Voltage [V]	Supply Current [mA]	No. of Tx	No. of Rx	Typ. Rx Input Hysteresis [mV]	Data Rate (min) [kbps]	PKG
TJ232E	RS-232	5.0	10	2	2	-	140	SOP-16/ TSSOP-16
MAX3232E	RS-232	3.3 ~ 5.0	2.0	2	2	300	250	SOP-16
MAX485E	RS-485/-422	5.0	0.9	1	1	20	5,000	SOP-8/ DIP-8
MAX3485E	RS-485/-422	3.3	0.5	1	1	20	10,000	SOP-8/ DIP-8

PRODUCTS (ICs)

GFCl - Earth Leakage Current Detector

Device Name	V _{CC_MIN} [V]	V _{CC_MAX} [V]	I _{CC_TYP} [μA]	V _T [mV rms]	V _{SCON} [V]	t _{ON} [ms]	PKG
GL7101S	12	20	400	11.50 ~ 13.86	0.7 ~ 1.4	1 ~ 4	SOP-8/ DIP-8

60V Operative Non-Synchronous DC/DC Converter (Step-Down Switching Regulator)

Device Name	V _{OUT} [V]	V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [kHz]	PKG
LM2575HV	ADJ/ 3.3/ 5.0/ 12	1.230	60	1.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L
LM2591HV	ADJ/ 3.3/ 5.0/ 12	1.230	60	1.0	150	TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2592HV	ADJ/ 3.3/ 5.0/ 12	1.230	60	2.0	150	TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2576HV	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	60	3.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2596HV	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	60	3.0	150	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L

CMOS ULDO Voltage Regulator

Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TJ9198 (EN)	0.8 ~ 3.6	Fixed	2.2	5.5	0.3	0.20 (@I _{LOAD} =0.3A)	0.035	DFN1x1-4/ SC-70-5L/ SOT-23-3L/ 5L
TJ4303 (EN)	ADJ	0.6	2.5	6.0	0.3	0.20 (@I _{LOAD} =0.3A)	0.10	SOT-23-5L
LM1108	1.5 ~ 5.0	Fixed	2.5	6.5	0.3	0.3 ~ 0.6 (@I _{LOAD} =0.3A)	0.015	SOT-23-3L/ SOT-89-3L
LM8805 (EN)	ADJ/ 1.5 ~ 6.0	1.27	2.5	6.5	0.6	0.6 ~ 1.3 (@I _{LOAD} =0.6A)	0.050	SOT-23-5L/ SOT-89-3L
TJ1119C/F	1.0 ~ 3.3	Fixed	2.5	5.5	1.0	0.40 (@I _{LOAD} =1.0A)	0.13	SOT-223-3L/ TO-252-3L
TJ1801 (EN/ PG/ SS)	ADJ	0.6	1.6	5.5	1.0	0.25 ~ 0.6 (@I _{LOAD} =1.0A)	0.15	SOP-8PP
TJ4310 (EN/ PG/ SS)	ADJ	0.6	2.5	5.5	1.0	0.35 (@I _{LOAD} =1.0A)	0.15	SOP-8PP/ SOT-89-5L/ DFN2x3-8
LD39150	ADJ	0.6	2.5	5.5	1.5	0.28 (@I _{LOAD} =1.5A)	0.20	TO-252-5L
TJ2132 (EN/ PG/ SS)	ADJ	0.6	1.1	3.6	2.0	0.25 (@I _{LOAD} =2.0A)	0.10	SOP-8PP/ DFN3x3-8
TJ4320 (EN/ PG/ SS)	ADJ	0.6	2.5	5.5	2.0	0.40 (@I _{LOAD} =2.0A)	0.20	SOP-8PP/ TO-252-5L
TJ4330 (EN/ PG/ SS)	ADJ / 3.3	0.6	2.5	5.5	3.0	0.40 (@I _{LOAD} =3.0A)	0.20	SOP-8PP/ TO-252-5L
TJ2134 (EN)	ADJ	0.8	1.3	3.6	4.0	0.24 (@I _{LOAD} =4.0A)	0.15	SOP-8PP
TJ2134A (EN/ PG/ SS)	ADJ	0.8	1.3	3.6	4.0	0.24 (@I _{LOAD} =4.0A)	0.15	SOP-8PP

Sink/ Source Linear Regulator

Device Name	Standards	A _{VIN} [V]	P _{VIN} [V]	V _{DDQ} [V]	V _{OUT} [V]	I _{SINK} & I _{SOURCE} [A]	PKG
TJ2998	DDR-2/3/3L/4	3.0 ~ 5.5	0 ~ 2.0	1.2 ~ 1.8	VTT/ VREF	2.0 (Cont.) 3.0 (Peak)	SOP-8/ SOP-8PP

PRODUCTS (ICs)

VLDO (Very Low Drop Out) Voltage Regulator

Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TJ75xxA	3.3/ 5.0	Fixed	2.7	30	0.1	0.60 (@I _{LOAD} =50mA)	0.001	SOT-23-5L / SOT-89-3L
LM2950/1	3.3/ 5.0	Fixed	4.3	30 (Absolute)	0.1	0.38 (@I _{LOAD} =0.1A)	0.075	TO-92/SOP-8
LM2950G	2.5/ 3.3/ 5.0	Fixed	4.3	30	0.1	0.38 (@I _{LOAD} =0.1A)	0.075	TO-92/SC-70-5L
LP2981 (EN)	3.3/ 5.0	Fixed	V _O +V _{DROP}	16	0.1	0.14 (@I _{LOAD} =0.1A)	0.120	TO-92/SOT-23-5L
TJ5205 (EN/ Bypass)	ADJ/ 2.0~8.5	1.242	2.5	16	0.15	0.165 (@I _{LOAD} =0.15A)	0.120	SOT-23-5L/ SOP-8/ SOP-8PP
LP2985 (EN/ Bypass)	3.3/ 5.0	Fixed	V _O +V _{DROP}	16	0.15	0.165 (@I _{LOAD} =0.15A)	0.120	SOT-23-5L
LM9076 (EN/ RESET)	3.3/ 5.0	Fixed	5.35	40	0.15	0.15 (@I _{LOAD} =0.15A)	0.025	SOP-8/ TO-263-5L
TJ62FPxx	2.8/ 3.0/ 3.3	Fixed	2.5	10	0.25	0.40 (@I _{LOAD} =0.16A)	0.001	SOT-23-3L/ SOT-89-3L
TJ75xx	3.3/ 5.0	Fixed	2.7	20	0.25	0.40 (@I _{LOAD} =0.16A)	0.001	TO-92/ SOT-89-3L
LP2954	ADJ/ 5.0	1.23	6.0	30 (Absolute)	0.25	0.47 (@I _{LOAD} =0.25A)	0.090	TO-92 TO-263-3L/ TO-220-3L
LM2940	3.3/ 5.0	Fixed	4.3	30 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	16	SOT-223-3L/ TO-263-3L/ TO-220-3L
LM2940H	3.3/ 5.0	Fixed	4.3	60 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	11	SOT-223-3L/ TO-263-3L/ TO-220-3L
LM2941	ADJ	1.24	2.3	30 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	1.0	TO-263-5L
LM3710x (EN/ Flag)	ADJ/ 2.5/ 5.0	1.24	2.25	16	1.0	0.47 (@I _{LOAD} =1.0A)	0.70	SOT-223-3L/ SOP-8/ TO-252-5L
LM37102C (EN)	ADJ	1.24	2.5	16	1.0	0.50 (@I _{LOAD} =1.0A)	3.8	SOP-8/ SOP-8PP
LM3910x (EN/ Flag)	ADJ/ 3.3/ 5.0	1.24	2.25	16	1.0	0.41 (@I _{LOAD} =1.0A)	0.70	SOP-8/ SOT-223-3L/ TO-252
LM2915x (EN/ Flag)	ADJ/ 1.8/ 2.5/ 3.3/ 5.0/ 12	1.24	2.25	26	1.5	0.35 (@I _{LOAD} =1.5A)	8	TO-252/ TO-263/ TO-220
LM3930x (EN/ Flag)	ADJ/ 1.8/ 2.5/ 3.3/ 5.0	1.24	2.25	16	3.0	0.40 (@I _{LOAD} =3.0A)	10	TO-263/ TO-220
LM2930x (EN/ Flag)	ADJ/ 1.8/ 2.5/ 3.3/ 5.0/ 12	1.24	2.30	26	3.0	0.37 (@I _{LOAD} =3.0A)	10	TO-263/ TO-220
LM39502 (EN)	ADJ	1.25	2.25	16	5.0	0.40 (@I _{LOAD} =5.0A)	15	TO-263/ TO-220

OCP IC

Device Name	Channel	Enable Control	V _{IN} [V]	I _{CC} [μA]	I _{CON_MAX} [A]	I _{LIMIT} [A]	R _{DS,ON} [mΩ]	PKG
TJ2242	Single	High	2.8 ~ 5.5	130	1.5	ADJ (0.2 ~ 2.25)	100	SOT-23-6L
TJ2242A	Single	High	2.8 ~ 5.5	90	1.5	ADJ (0.2 ~ 2.25)	100	SOT-23-6L

Timer

Device Name	V _{CC_MIN} [V]	V _{CC_MAX} [V]	I _{CC,TAX} [mA]	I _{O_MAX} [mA]	V _{OL_MAX} @V _{CC} =15V [V]	V _{OH_MIN} @V _{CC} =15V [V]	PKG
NE555	2	18	0.3	20	1.0	14.3	SOP-8/ DIP-8
SA555	4.5	16	15	200	2.5	12.75	SOP-8/ DIP-8

PRODUCTS (ICs)

LDO (Low Drop Out) Voltage Regulator

Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
LM1117	ADJ/ 1.2/ 1.5/ 1.8/ 2.5/ 3.3/ 5.0	1.25	2.7	20 (Absolute)	1.0	1.2 (@I _{LOAD} =1.0A)	5	SOT-223/ SOT-89-3L/ TO-252
LM1117G	ADJ/ 1.2/ 1.5/ 1.8/ 2.5/ 3.3/ 5.0	1.25	2.7	20 (Absolute)	1.0	1.2 (@I _{LOAD} =1.0A)	5	SOT-23/ SOT-223
LM1086	ADJ/ 1.5/ 1.8/ 2.5/ 3.3/ 5.0	1.25	3.0	15 (Absolute)	1.5	1.3 (@I _{LOAD} =1.5A)	7	TO-252/ TO-263
LM1085	ADJ/ 1.5/ 1.8/ 2.5/ 3.3/ 5.0	1.25	3.0	15 (Absolute)	3.0	1.3 (@I _{LOAD} =3.0A)	7	TO-252/ TO-263
LM1084	ADJ/ 1.5/ 1.8/ 2.5/ 3.3/ 5.0	1.25	3.0	15 (Absolute)	5.0	1.3 (@I _{LOAD} =5.0A)	7	TO-252/ TO-263

Standard Linear Voltage Regulator

Device Name	V _{OUT} [V]	Tolerance [%]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_MAX} [mA]	PKG
LM78L05	5	2/ 4	7	20	0.1	1.7	6	TO-92/ SOP-8 / SOT-89-3L
TJ78L05	5	4	7	20	0.1	1.7	6	SOT-89-3L
LM78Lxx	6/ 8/ 9/ 10/ 12/ 15/ 18/ 24	4	8 ~ 26.5	20 ~ 39	0.1	1.7	6 ~ 6.5	TO-92 / SOT-89-3L
LM79Lxx	-5/ -6/ -8/ -9/ -12/ -15/ -18/ -24	4	-7 ~ -27	-20 ~ -38	0.1	1.7	6 ~ 6.5	TO-92 / SOT-89-3L
LM317Lx	Adjustable (1.25 ~ 37)	4	3	40	0.1	3.0	10	TO-92/ SOP-8 / SOT-89-3L
LM79Mxx	-5/ -6/ -8/ -9/ -12/ -15/ -18/ -20/ -24	4	-7 ~ -27	-25 ~ -38	0.5	1.6	2	TO-220F-3L
LM317	Adjustable (1.25 ~ 37)	4	3	40	1.5	3.0	10	SOT-223/ TO-252-3L TO-263-2L/-3L/ TO-220-3L
LM78xx	5/ 6/ 9/ 12/15/ 24	5	V _O + 2	25	1.5	2.0	8	SOT-223/ TO-263-3L / TO-220-3L/ TO-220F-3L
LM79xx	-5	4	V _O - 2	-25	1.5	2.0	7.8	TO-220-3L/ TO-220F-3L

Voltage Reference

Device Name	Tolerance [%]	V _{REF} [V]	V _{KA} [V]	I _{KA_MAX} [mA]	I _{KA(MIN)_MAX} [mA]	PKG
TL431	- : 2, A : 1, C : 0.5	2.495	40	100	0.5	TO-92/ SOT-89-3L/ SOT-23-3L
LP431	A : 1, C : 0.5	2.500	36	100	0.08	SOT-23-3L
LM431	A : 1	2.500	40	100	0.5	SOT-23-3L (Reverse Pin)
TJR431	A : 1, C : 0.5	2.495	28	100	1.0	SOT-23-3L (Reverse Pin)
TL432	A : 1, C : 0.5	1.240	18	100	0.08	TO-92/ SOT-23-3L
LM336	2.0	2.5/5.0(Fixed)	-	10	0.6	TO-92/ SOP-8
LM385	3.0	1.2/2.5 (Fixed) 1.24 (ADJ)	-	20	0.035	TO-92/ SOP-8

Step-Up Switching Voltage Regulator

Device Name	V _{IN} [V]	I _{SW} [A]	V _{SW_MAX} [V]	I _{CC} [μA]	F _{SW} [KHz]	PKG
LM1938	2.5 ~ 10	0.65	36 (Absolute)	0.1 (Shut-down) 2100 (Operating)	1300	SOT-23-6L

Converter & Controller – LED Driver

Device Name	Topology	V _{SUPPLY} [V]	Current sense pull-in threshold V _{CS(HI)} [mV]	I _{OUT} [A]	Dimming	PKG
TJ9910	Buck	8 ~ 450	235 ~ 265	External FET	PWM/ Linear	SOP-8
TJ9910A	Buck	10 ~ 600	238 ~ 262	External FET	PWM/ Linear	SOP-8

: Products Under Development

PRODUCTS (ICs)

Non-Synchronous DC/DC Converter (Step-Down Switching Regulator)

Device Name	V _{OUT} [V]	V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [KHz]	PKG
LM2574	ADJ/ 3.3/ 5.0/ 12	1.230	40	0.5	52	DIP-8/ SOP-14
LM2575G	ADJ/ 3.3/ 5.0/ 12	1.230	40	1.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L
LM2576	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2596	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	150	SOP-8PP/ TO-263-5L/ TO-220-5L/ TO-220TV-5L
LM2596G /LM2596A	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	150	TO-263-5L/ TO-220-5L
LM4576	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	300	SOP-8PP/ TO-263-5L/ TO-220-5L
LM1501AG	ADJ/ 3.3/ 5.0/ 12	1.230	40	5.0	150	TO-263-5L/ TO-220-5L
LM1501BG	ADJ/ 3.3/ 5.0/ 12	1.230	40	5.0	300	TO-263-5L/ TO-220-5L

Converter & Controller – Step-Up/Down Converter Controller

Device Name	Supply Voltage V _{CC} [V]	Switch Current I _{SW} [A]	Reference Accuracy [%]	Supply Current I _{CC_MAX} [mA]	Com. Input Range V _{IR} [V]	T _A Range [°C]	PKG
MC34063AG	40	1.5	2	4.0	-0.3 ~ 40 (Absolute)	-40 ~ 125	SOP-8/ DIP-8
MC34063CG	40	1.2	2	4.0	-0.3 ~ 40 (Absolute)	-40 ~ 125	SOP-8/ DIP-8

Converter & Controller – Charge Pump Voltage Converter

Device Name	Supply Voltage [V]	Output Voltage [V]	Supply Current [μA]	Power Efficiency [%]	Frequency [KHz]	PKG
TJ7660	10.5 (Absolute)	-nV _{IN}	100	98	10	SOP-8/ DIP-8

Converter & Controller – PWM Controller

Device Name	Supply Voltage V _{CC} [V]	Reference Output V _{REF} [V]	Frequency (max) [KHz]	UVLO Threshold V _{TH} [V]	Duty Cycle (max) [%]	PKG
LM3842	30 (Absolute)	5	500	16	100	SOP-8/ DIP-8
LM3843	30 (Absolute)	5	500	8.4	100	SOP-8/ DIP-8

Device Name	Supply Voltage V _{CC} [V]	Reference Output [V]	Oscillator Frequency [KHz]	Collector Output Current [A]	C-E Saturation Voltage [V]	PKG
TL494	40	5	300	0.2	1.1 (@ CE) 1.5 (@ CC)	SOP-16/ DIP-16

Constant Voltage & Current Controller

Device Name	Supply Voltage V _{CC} [V]	Voltage Control Loop Ref. V _{REF} [V]	Transconduction Gain(V _{CTRL}) [mA/mV]	Current Control Loop Ref. V _{SNESE} [V]	Transconduction Gain(I _{CTRL}) [mA/mV]	PKG
TJ1051	12	1.21	3.5	0.2	7	SOT-23-6L/ SOP-8

Darlington Transistor Arrays

Device Name	Output Type	Channel	V _{CE} (Abs.) [V]	V _{IN} (Abs.) [V]	Max Collector Current [mA]	V _{CE(SAT)} ,MAX [V]	Input Base Resistor [kΩ]	PKG
ULN2003A	Sink	7	50	30	500	1.3 @ I _C =200mA	2.7	SOP-16/ DIP-16
ULN2004A	Sink	7	50	30	500	1.3 @ I _C =200mA	10.5	SOP-16/ DIP-16
ULN2803A	Sink	8	50	30	500	1.3 @ I _C =200mA	2.7	SOP-18/ DIP-18
ULN2803C	Sink	8	50	30	500	1.3 @ I _C =200mA	2.7	SOP-20
TD62783A	Source	8	50	15	500	1.9 @ I _C =-225mA	2.7	SOP-18/ DIP-18

PRODUCTS (ICs)

Amplifier

Device Name	Type	Supply Voltage V _{CC} [V]	Input Offset V _{IO_MAX} [mV]	Differential input V _{I(DIFF)} [V]	Input Voltage V _{IN} [V]	PKG
LM358G	Dual	45 (Absolute)	7	45 (Absolute)	-0.3~45 (Absolute)	TSSOP-8/ DIP-8
LM358WGD	Dual	45 (Absolute)	7	45 (Absolute)	-0.3~45 (Absolute)	SOP-8
TJ358GD	Dual	45 (Absolute)	7	45 (Absolute)	-0.3~45 (Absolute)	SOP-8
LM2904	Dual	45 (Absolute)	7	45 (Absolute)	-0.3~45 (Absolute)	SOP-8/ DIP-8
LM4558	Dual	± 22 (Absolute)	5	± 30 (Absolute)	± 15 (Absolute)	SOP-8/ DIP-8
TJ324GD	Quad	36 (Absolute)	7	36 (Absolute)	-0.3~36 (Absolute)	SOP-14
LM324N	Quad	36 (Absolute)	7	36 (Absolute)	-0.3~36 (Absolute)	DIP-14
LM2902	Quad	36 (Absolute)	7	36 (Absolute)	-0.3~36 (Absolute)	SOP-14/ DIP-14
OP07	Single	± 22 (Absolute)	0.06	± 30 (Absolute)	± 22 (Absolute)	SOP-8/ DIP-8
LM386	Single	15 (Absolute)	Gain=46dB/ BW=30kHz/ THD=0.2%		± 0.4	SOP-8/ DIP-8

Comparator

Device Name	Type	Supply Voltage [V]	Differential Input V _{I(DIFF)} [V]	Input Voltage [V]	Input Offset V _{IO} [mV]	Input Offset Current [nA]	Input Bias Current [nA]	PKG
TJ393GD / LM393GN	Dual	± 18 or 36 (Absolute)	36 (Absolute)	-0.3 ~ 36 (Absolute)	2	5	-25	SOP-8/ DIP-8
TJ339GD / LM339N	Quad	± 18 or 36 (Absolute)	36 (Absolute)	-0.3 ~ 36 (Absolute)	2	5	-25	SOP-14/ DIP-14

Driver – Precision Air-Core Tach/Speedo Driver

Device Name	Supply Voltage (Absolute) [V]	Max. Input Freq. Range [kHz]	Output V _{SAT} [V]	Output Voltage [V]	(V _{CS+} -V _{CS-}) [V]	(V _{SIN+} -V _{SIN-}) [V]	PKG
CS8190	24	20	0.15 @ I _{CC} =10mA	7	6.5 @ Θ=0° -6.5 @ Θ=180°	6.5 @ Θ=90° -6.5 @ Θ=270°	SOP-20

Driver – Quadruple Half-H Driver

Device Name	Max. Supply Voltage [V]	Logic Supply Voltage [V]	Max. Power Supply Current [mA]	Max. Logic Supply Current [mA]	Source Output Sat. Voltage [V]	Sink Output Sat. Voltage [V]	PKG
L293D	36	4.5 ~ 7	14	35	1.4	1.2	DIP-16

Logic IC

Device Name	V _{CC(MIN)} [V]	V _{CC(MAX)} [V]	CH. [#]	I _{OL(MAX)} [mA]	I _{OH(MAX)} [mA]	V _{OL(MAX)} @ V _{CC} =6V	V _{OH(MIN)} @ V _{CC} =6V	t _{PD, TYP} @ V _{CC} =4.5V	PKG
74HC00	2	6	4	5.2	-5.2	0.4V @ I _{OL} ,MAX	5.2V @ I _{OH} ,MAX	9 ns	SOP-14/ DIP-14
74HC04	2	6	6	5.2	-5.2	0.4V @ I _{OL} ,MAX	5.2V @ I _{OH} ,MAX	9 ns	SOP-14/ DIP-14
74HC14	2	6	6	5.2	-5.2	0.4V @ I _{OL} ,MAX	5.2V @ I _{OH} ,MAX	15 ns	SOP-14/ DIP-14
74HC595	2	6	1	5.2	-5.2	0.4V @ I _{OL} ,MAX	5.2V @ I _{OH} ,MAX	20 ns	TSSOP/SOP/ DIP-16

Device Name	V _{CC} [V]	CH. [#]	R _{ON,MAX} [ohm]	R _{ON,MAX} [ohm]	R _{ON,MAX} [ohm]	I _{IN} [uA]	I _{ON} [uA]	I _{OFF} [uA]	PKG
CD4066B	3 ~ 18	4	1050 @5V	400 @10V	240 @15V	±0.1	±0.1	±0.1	SOP-14/ DIP-14

Device Name	V _{CC(MIN)} [V]	V _{CC(MAX)} [V]	CH. [#]	I _{OL,MIN} [mA]	I _{OH,MIN} [mA]	V _{OL,MAX} @ V _{CC} =5V	V _{OH,MIN} @ V _{CC} =5V	t _{PD, TYP} @ V _{CC} =5V	PKG
CD4069UB	3	18	6	0.51	-1.6	0.05V	4.95V	110 ns	SOP-14/ DIP-14
CD4081B	3	18	4	0.51	-1.6	0.05V	4.95V	250 ns	SOP-14/ DIP-14
CD4093B	3	18	4	0.51	-1.6	0.05V	4.95V	380 ns	SOP-14/ DIP-14

TVS

Device Name	Lines	Reverse Stand-Off [V]	Min. Breakdown Voltage [V]	Max. Reverse Leak Current [A]	ESD Immunity Contact [kV]	ESD Immunity Air [kV]	PKG
SM05	2	5	6.0	5	8	15	SOT-23-3L
SRV05-4	4	5	5.8	5	8	15	SOT-23-6L

: Products Under Development

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
GFCI - Earth Leakage Current Detector	GL7101SD		KA2703BDTF KA2803CDTF	
	GL7101SN		KA2803B	
Interface IC	MAX232EN	MAX232N/IN		ST232CN
	MAX3232D	TP53232ECPWR, MAX3232		ST3232
	MAX485ED	SN75176AD, DS1487M, ADM485AR		ST485BDR, ST485CDR
	MAX485EN	SN75176AP, DS1487N, ADM485AN		ST485BN, ST485CN
	MAX3485ED	SN65HVD11D/DR, SN75HVD12D/DR		ST1480ABDR, ST3485EBDR
High Performance Linear Power ICs	TPS7A4001MDP	TPS7A4001DGNx		
	TPS761xx	TPS788xxDBVR, LP2985A-xxDBV, TPS761xxDBVR, TPS709xxDBVR,	NCP4620HSNxxT1G	LD2981ABMxxTR LD2985BMxxR, LD2980ABMxxTR, LDK220Mxx / 320Mxx
	TPS73001	TPS73201DBVR, TPS73001DBVR, TPS79101DBVR	CAT6220TDI-GT3	LDLC015MR
	TPS730xx	LP5907MFX-x.x, LP5907SNX-x.x, TLV703xx, TLV702xx, TPS721xxDBVR	NCP115ASNxx, NCP4589DSQxx, NCP4589DSNxx	LDLN025PU/M.xx, LD39020DTPUxx, LD39030DTPUxxR, LD3985MxxR
	TPS740xx	TLV702xxDBVR, TLV740xxPDBVR, TLV757xxPDBVR, TPS735xx	CAT6219-xxxTDG, CAT6219ADJTD	
	TPS1117LVxx	TLV1117LVxxDCYR, LM3940IMP-x.x		
	TPS7A8001	TPS7A8001DRB TPS786xx	CAT6243DCADJ-RKG	LDL112
	TPS7A7001	TPS796xxKTT, TPS7A7001DDA, TPS78630, LP3965	CAT6243DCADJ-RKG	LD39150
	TPS7A7002	TPS7A7002DDA TPS7A7002DDAR TPS758xx, TPS74401 TPS75701KTT, LP38501-TS-ADJ	NCP4632DDTADJ	LD39300
	TPS7A4501	TPS7A4501KTTR	NCP59150DSADJ, NCV59150DSADJ, NCP57152DSADJ, NCV57152DSADJ	
	TPS75701	TPS75701KTT	NCP59302DSADJ, NCV59302DSADJ, NCP5663DSADJR4G, NCV5663DSADJR4G	LD29300P2MTR
	TPS75501	TPS75501KTT		
	TPS2553D	TPS2553DBVR	NCP380HSNAJ	
	LP2998	LP2998	NCP51198	
Dual Channel CMOS ULDO Voltage Regulator (MLCC)	LM2C1117			
	TJ5641/H			

: DIRECT Pin-to-Pin Compatible (Drop-In Replacement)

: Same Pin Configuration but Different Characteristics

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
60V Operative Non-Synchronous DC/DC Converter	LM2575HVPD-x.x	LM2574HVM-xx, LM2574HVN-xx, TL2575HV-xxIN		L4971, L4976
	LM2575HVR-x.x	LM2575HVS-x.x, TL2575HV-xxIKTT		
	LM2575HVT-x.x	LM2575HVT-x.x TL2575HV-xxIKV		
	LM2576HVPD-x.x			
	LM2576HVR-x.x	LM2576HVS-x.x		
	LM2576HVT-x.x	LM2576HVT-x.x		
	LM2591HVR-x.x	LM2591HVS-x.x		
	LM2591HVT-x.x	LM2591HVT-x.x		
	LM2592HVR-x.x	LM2592HVS-x.x		
	LM2592HVT-x.x	LM2592HVT-x.x		
	LM2596HVGDP-x.x	LM2594HVMX-x.x, LM2594HVN-x.x		L7987L, L4973
	LM2596HVGR-x.x	LM2593HVS-x.x		
CMOS ULDO Voltage Regulator (MLCC)	LM2596HVGT-x.x	LM2593HVT-x.x		
	TJ9198	LP5907MFX-x.x, LP5907SNX-x.x, TLV703xx, TLV702xx, TPS721xxDBVR	NCP115ASNxx, NCP4589DSQxx, NCP4589DSNxx	LDLN025PU/M.xx, LD39020DTPUxx, LD39030DTPUxxR, LD3985MxxR
	TJ4303GSF5-x.x	TPS73201DBVR, TPS73001DBVR, TPS79101DBVR	CAT6220TDI-GT3	LDLC015MR
	LM1108			
	LM8805SF5-x.x	TLV702xxDBVR, TLV757xxPDBVR, TPS735xx	CAT6219-xxxTDG, CAT6219ADJTD	
	TJ1119C/FGS-x.x	TLV1117LVxxDCYR, LM3940IMP-x.x		
	TJ1119C/FGRS-x.x			
	TJ1801			LDL112
	TJ4310 Series	TPS786xx	CAT6243DCADJ-RKG	LDL112
	LD39150/ADJ			LD39150PT, LD39150DTxx, LD39150PU
	TJ2132 Series			LD49150
	TJ4320 Series	TPS796xxKTT, TPS78630, LP3965	CAT6243DCADJ-RKG	LD39150
	TJ4330 Series	TPS758xx, TPS74401 TPS75701KTT, LP38501-TS-ADJ	NCP4632DDTADJ	LD39300
	TPS7A7002DP	TPS7A7002DDA TPS7A7002DDAR		
	TJ2134/AGDP	TPS7A85		LD49300PTxx

: Same Function but Different Pin Configuration or Characteristics

: Products Under Development

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
OCP IC	TJ2242GSF6	TPS2553DBVR	NCP380HSNAJ	
	TJ2242AGSF6	TPS2553DBVR	NCP380HSNAJ	
	TJ82034HGD	LM3525M		
Sink / Source Linear Regulator	TJ2998GD	LP2998	NCP51198	
	TJ2998GDP	LP2998	NCP51198	
VLDO Voltage Regulator	LM2950/1D-x.x	LP295x	LP295x, NCV4264D50R2G	
	LM2950G/GTF5-x.x	LP2950ACZ-x.x	LP2950ACZ-x.x	
	LP2981/SF5-x.x	LP2981 Series		LD2981ABMxxTR
	TJ5205 Series	LP2985 Series, TPS788xxDBVR, TPS761xxDBVR, TPS709xxDBVR,		LD2981ABMxxTR LD2985BMxxR, LD2980ABMxxTR, LDK220Mxx / 320Mxx
	LP2985SF5-x.x	LP2985 Series, TPS788xxDBVR, TPS761xxDBVR, TPS709xxDBVR,		LD2981ABMxxTR LD2985BMxxR, LD2980ABMxxTR, LDK220Mxx / 320Mxx
	LM9076D	LM9076BMA/BMX-x.x		
	LM9076R	LM9076S/SX-x.x		
	TJ62FPxxGSF/GF			
	TJ75xxG/GF		MC78LC5xxHT1G	LDK320ADUxxR
	LM2954	LP2954		
	LM2940S	LM2940IMP-x.x, LM2940CS/CT/-x.x		
	LM2940T	LM2940CT-x.x, LM2940CS-x.x		
	LM2940HS	LM2937IMP/IMPX-x.x LM2940IMP/IMPX-x.x		
	LM2940HR	LM2940S-x.x, LM2940IMP/CT-x.x		
	LM2940HT	LM2940CT-x.x, LM2940IMP/CS/LD-x.x		
	LM37100S-x.x			LD29080SxxR
	LM37101D-x.x	UCC381DP-x, UCC281DP-x.	MC33269DR2-x.xG	
	LM37102D	TL5209DR, UCC381DP-xADJ UCC281DP-ADJ	MC33269DR2G	
	LM37102RS		NCP5661DTADJRKG	LDFPT, LD29080PT
	LM37102CGD/GDP	TL5209DR, TPS73801DCQR	MC33269DR2G	
	LM39100S-x.x			LD29080Sxx
	LM39100RS-x.x			LD29080DTxx, LDFxxDT, LD39080DTxx
	LM39101D-x.x	UCC381DP-x, UCC281DP-x.	MC33269DR2-x.xG	
	LM39101RS-x.x			LDFxxPT

: DIRECT Pin-to-Pin Compatible (Drop-In Replacement)

: Same Pin Configuration but Different Characteristics

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
VLDO Voltage Regulator	LM39102D	TL5209DR, TPS73801DCQR, UCC381DP-xADJ UCC281DP-ADJ	MC33269DR2G	
	LM39102RS		NCP5661DTADJRKG	LDFPT, LD29080PTR
	LM29150RS-x.x			LD29150DTxxR, LD39150DTxx, LFXxAB/CDT
	LM29150R-x.x	LM2940S-xx, LM2940CS-xx	NCP59150DSxx, NCV59150DSxx, NCP565D2Txx, NCV565D2Tx,	
	LM29150T-x.x	LM2940T-xx LM2940CT-xx		LFXxAB/CV, LFXxAB/CV-DG
	LM29151R-x.x	TPS7A45xxKTTR	NCP59150DSxx, NCV59150DSxx, NCP565D2Txx, NCV565D2Tx	
	LM29152RS			LD29150PTR LD39150PTxx, LFXxAB/CPT
	LM29152R	TPS7A4501KTTR	NCP59152DSADJ, NCV59152DSADJ, NCP57152DSADJ, NCV57152DSADJ	
	LM29152T			
	LM39300R-x.x		NCP59300DSxx, NCV59300DSxx, NCP5663DSxxR4G, NCV5663DSxxR4G	LD39300DTxx
	LM39300T-x.x			
	LM39301R-x.x	TPS757xxKTT, LP3853/6ES-x.x	NCP59301DSxx, NCV59301DSxx	LD39300PTxx
	LM39301T-x.x	TPS757xxKC, LP3853/6ET-x.x		
	LM39302R	TPS75701KTT	NCP59302DSADJ, NCV59302DSADJ, NCP5663DSADJR4G, NCV5663DSADJR4G	LD29300P2MTR
	LM39302T	TPS75701KC		
	LM29300R-x.x			
	LM29300T-x.x			
	LM29301R-x.x			
	LM29301T-x.x			
	LM29302R			
	LM29302T			
	LM39502R	TPS75501KTT		
	LM39502T	TPS75501KC		

: Same Function but Different Pin Configuration or Characteristics

: Products Under Development

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
LDO Voltage Regulator	LM1117S-x.x	REG1117/A-x.x, LM1117MP-x.x LMS8117AMP-x.x	NCP1117STxxT3G, MC33269ST-x.x	LD1117SxxTR
	LM1117F-x.x			
	LM1117RS-x.x	LM1117DT-x.x, LMS8117ADT-x.x	NCP1117DTxx, NCV1117DTxx, MC33269SDT-x.x	LD1117DTxxTR
	LM1117GS-x.x	REG1117/A-x.x, LM1117MP-x.x LMS8117AMP-x.x	NCP1117STxx, NCV1117STxx, MC33269ST-x.x, NCV565STxx	LD1117SxxTR, LDL1117xxR
	LM1086R/RS-x.x	LM1086		LD1086
	LM1085R/RS-x.x	LMS1587IS/CS-x.x, LMS1587IT/CT-x.x, LM1085		LD1085
	LM1084R/RS-x.x	LMS1585IS/CS-x.x, LMS1585IT/CT-x.x, LM1084	CS5205-1GDP	LD1084
Standard Linear Voltage Regulator	LM78L05/F/D	UA78Lxx, LM78Lxx	MC78Lxx, KA78Lxx, LM78Lxx, NCV78L05ABDR2G	L78Lxx
	TJ78L05GF	UA78Lxx, LM78Lxx	MC78Lxx, KA78Lxx, LM78Lxx	L78Lxx
	LM78Lxx/F	UA78Lxx, LM78Lxx	MC78Lxx, KA78Lxx, LM78Lxx	L78Lxx
	LM79Lxx/F	LM79Lxx	MC79Lxx	L79Lxx
	LM317L/LF/LD	TL317, LM317L	LM317L	LM317L
	LM79MxxTP	LM79MxxCT, UA79MxxCKCS	MC79MxxBT/CT, KA79Mxx	L79MxxCP, L79MxxACV L79MxxACV-DG
	LM317	LM317, LM317A	LM317, LM317B, NCV317	LM317, LM217, LM117
	LM78xx	LM78xx	MC78xx,KA78xx	L78xxCP, L78xxACP
	LM79xx	LM79xxCT, UA79xxCKCS	MC79xxBT/CT, KA79xx	L79xxCP, L79xxACV L79xxACV-DG
Interface IC	MAX232EN	MAX232N/IN		ST232CN
	MAX3232D	TPS3232ECPWR, MAX3232		
	MAX485ED	SN75176AD, DS1487M, ADM485AR		ST485BDR, ST485CDR
	MAX485EN	SN75176AP, DS1487N, ADM485AN		ST485BN, ST485CN
	MAX3485ED	SN65HVD11D/DR, SN75HVD12D/DR		ST1480ABDR, ST3485EBDR

: DIRECT Pin-to-Pin Compatible (Drop-In Replacement)

: Same Pin Configuration but Different Characteristics

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
Converter & Controller	MC34063AGD	MC34063AD,	MC34063ADG, SC34063ADR2G NCP3066DR	MC34063ACD-TR, MC34063ECD-TR
	MC34063AGN	MC34063AP	MC34063AP1G, SC34063AP1G, NCP3066PG	MC34063ACN, MC34063ECN
	MC34063BD	MC33063AD	MC33063ADG, SC33063ADR2G' NCP3066DR	MC34063ABD-TR
	MC34063CD	MC33063AD, MC34063AD	MC33063ADG, SC33063ADR2G, NCP3066DR	MC34063ABD-TR
	TJ34063AGD	MC33063AD, MC34063AD	MC34063ADG, MC33063ADG, SC33063ADR2G	MC34063ABD-TR
	MC34063CGD	MC33063AD, MC34063AD	MC33063ADG, SC33063ADR2G	MC34063ABD-TR
	LM3842AD	UC3842D, TL3842BDR-8	UC3842AD / BD	UC3842BD, UC3844BD
	LM3842AN	UC3842N, TL3842BP	UC3842AN / BN	UC3842BN, UC3844BN
	LM3843AD	UC3843D, TL3843BDR-8	UC3843AD / BD	UC3843BD, UC3845BD
	LM3843AN	UC3843N, TL3843BP	UC3843AN / BN	UC3843BN, UC3845BN
	TL494D	TL494CD, TL494ID	TL494CD	
	TL494N	TL494CN, TL494IN	TL494CN, TL494IN	
	TJ9910GD		CS5171, NCV5171EDR2G CS5173	
	TJ9910AGD		CS5171, NCV5171EDR2G CS5173	
	TJ33120GD			
	TJ7660D	LM2660MX TL7660CD/CDR LMC7660IM/IMX	CAT660EVA-GT3	
	TJ7660N	TL7660CP LMC7660IN		
	TJ1051			
Comparator	TJ393GD	LM293D, LM393D, LM2903D	LM293D, LM393D, LM2903D	LM393D
	TJ393GN	LM293P, LM393P, LM2903P	LM293N, LM393N, LM2903N	LM393
	LM393GN	LM293P, LM393P, LM2903P	LM293N, LM393N, LM2903N	LM393
	TJ339GD	LM339	LM239,LM339, MC3302	LM339
	LM339GD	LM339	LM239,LM339, MC3302	LM339
	LM339N	LM339	LM239,LM339, MC3302	LM339

: Same Function but Different Pin Configuration or Characteristics

: Products Under Development

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
Operational Amplifier	LM358GN	LM358N, LM258P	LM258N, LM358N, KA358, KA2904	LM258N
	LM358GTD	LM358APW		LM358PT
	LM358WGD			LM358WDT
	TJ358GD	LM258, LM358	LM258, LM358, KA258D, KA358D	LM358
	LM2904D	LM2904D	LM2904D, KA358D	LM2904DT, LM358
	LM4558D	RC4558, RC4558I		MC4558CD
	TJ324GD	LM224, LM324	LM224, LM324	LM324
	LM324N	LM224, LM324	LM224, LM324	LM324
	LM2902	LM224, LM324	LM224, LM324	LM324
	OP07D	OP07CD, OP07DD OP07CPS, OP07DPS		
	OP07N	OP07CP, OP07DP OP07CPS, OP07DPS		OP07C, OP07CN
	LM386D	LM386M, LM386MX,		
Darlington Transistor Array	ULN2003AD	ULN2003ADxxx, ULQ2003ADxx	ULN2003ADR2G, ULQ2003ADR2G	ULN2003DD1013TR
	ULN2003AN	ULN2003AN ULQ2003AN		ULN2003A
	ULN2803AD	ULN2803ADWxx		
	ULN2803AN	ULN2803AN	ULN2803A	ULN2803A
	ULN2803CD	ULN2803CDxx		
Driver	CS8190N		CS8190ENF16G CS4121ENF16	
	L293DN	L293DNE, L293NE		L293D, L293DD
Voltage Reference	TL431x	TL431/2, TL1431	TL431, LM431	TL431x, TL432
	TJ431x	TL431/2	TL431, LM431	TL432
	LP431GxSF	ATL432	NCP431	
	LM431xSF	TL431, LM431		TL1431, TL431
	TJR431xSF	TL431, LM431		TL1431, TL431
	TL432x	TLV431, LMV431, TLVH431	TLV431	TS432, TLVH431
	LM336	LM336Z/BZ-x.x, LM136Z/BZ-2.5, LM236Z/BZ-2.5	LM336Z25, LM336Z5X	LM336Z, BZ , LM236Z
	LM336D	LM336M,BM-x.x, LM136M,BM-x.x, LM236M,BM-x.x,		LM336D / DT, BD / BDT , LM236D/DT
	LM385	LM385Z/BZ/BXZ/BYZ LM185Z/BZ/BXZ/BYZ LM285Z/BZ/BXZ/BYZ	LM385Z/BZ-x.x , LM185Z/BZ-x.x , LM285Z/BZ-x.x ,	
	LM385D	LM385M/BM/BMX/BD LM185M/BM/ BMX, LM285M/BM/BMX,	LM385D/BD-x.x , LM185D/BD-x.x , LM285D/BD-x.x ,	

: DIRECT Pin-to-Pin Compatible (Drop-In Replacement)

: Same Pin Configuration but Different Characteristics

CROSS REFERENCE GUIDE

Category	TAEJIN	TI	ON-SEMI	ST
Logic IC	74HC00D	SN74HC00D SN74HC00DB/NS/PW	74HC00DR2G, 74HC00DTR2G	M74HC00M1R / RM13TR, M74HC00TTR
	74HC00N	SN74HC00N SN74HC00DB/NS/PW	74HC00DTR2G	M74HC00B1R, M74HC00TTR
	74HC04D	SN74HC04D SN74HC04DB/NS/PW	74HC04DR2G, 74HC04DTR2G	M74HC04RM13R, M74HC04YRM13TR,
	74HC04N	SN74HC04N SN74HC04DB/NS/PW	74HC04DTR2G	M74HC04B1R, M74HC04TTR/YTTR
	74HC14D	SN74HC14D SN74HC14DB/NS/PW	74HC14DR2G, 74HC14DTR2G	M74HC14YRM13TR, M74HC04YTTR
	74HC14N	SN74HC14N SN74HC14DB/NS/PW	74HC14DTR2G	M74HC04YTTR
	CD4066BD	CD4066BM/BM96/BM96E4/ BM96G4	MC14016BDG/BDR2G, NMV14016BDR2G, 74HC4066ADR2G	M74HC4066M1R
	CD4066BN	CD4066BE/BEE4		M74HC4066B1R
TVS-Array	SM05SF	TPD2E2U06	MMBZ6V8ALT1G	ESDA6V1L
	SRV05-4SF6	TPD4E001DBVR	CM1224-04SO	ESDA6V1-5SC6
Timer	NE555D	NE555DX, LM555CM, SE / NA555DX	LM555CM/CMX	NE555D/DT, SE555D/DT
	NE555N	NE555P, LM555CN, SE / NA555P	LM555CN	NE555N, SE555N
	SA555D	SA555DX, SE / NA555DX		SA555D/DT
	SA555N	SA555P SE / NA555P		SA555N
Non-Synchronous DC/DC Converter	LM2574N-x.x	LM2574M-xx, LM2574N-xx	LM2574DW-xx, LM2574N-xx,	
	LM2575GDP-x.x	TL2575-xxlIN, LM2575lIN	LM2575T-x.x, LM2575TV-x.x,	L6902D, A5970AD, L5970AD
	LM2575GR-x.x	TL2575-xxlKTT, LM2575S-x.x, LM1575S-x.x, LM2595S-x.x	LM2575D2T-x.x NCV2575D2T-xx	
	LM2575GT-x.x	TL2575-xxlKV, LM2575T-x.x, LM1575T-x.x, LM2595T-x.x	LM2575T-x.x, LM2575TV-x.x,	
	LM2576DP-x.x			L5972D
	LM2576R-x.x	LM2576S-x.x	LM2576D2T-x.x	
	LM2576T-x.x	LM2576T-x.x,	LM2576T-x.x	
	LM2596DP-x.x	LM2594MX-x.x, LM2594N-x.x	LM2594D/PADJ	A5975D, L5987, L5973D
	LM2596R-x.x	LM2596S-x.x, LM2595S-x.x,	LM2596DSADJG, LM2595DSADJG,	
	LM2596T-x.x	LM2596T-x.x, LM2595T-x.x,	LM2596TADJG, LM2595TADJG	
	LM2596GDP-x.x	LM2591HVT-x.x, LM2592HVT-x.x, LM2593HVT-x.x,		
	LM2596GR-x.x			L5973D
	LM2596GT-x.x	LM2596R-x.x	LM2596DSADJG	
	LM4576	LM2596T-x.x	LM2596TADJG	
	LM1501A/B	LM2596 LM2675-x.x LM22678-x.x, LM2678D/S/T-x.x	LM2596	A5975D,,A7986A L5973D, L4976
Step-Up DC/DC Converter	LM1938SF6	TPS61041, LM27313, TPS61165		

: Same Function but Different Pin Configuration or Characteristics

: Products Under Development