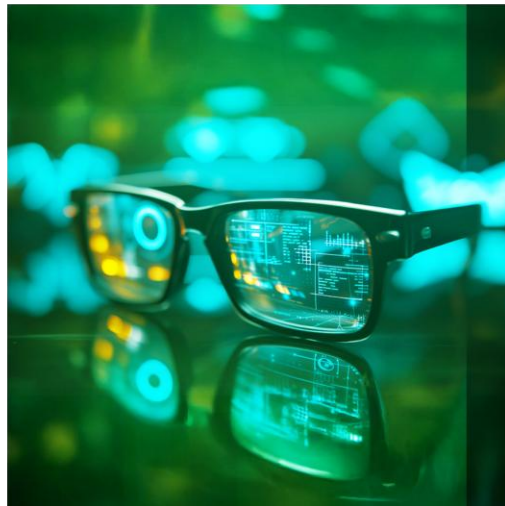
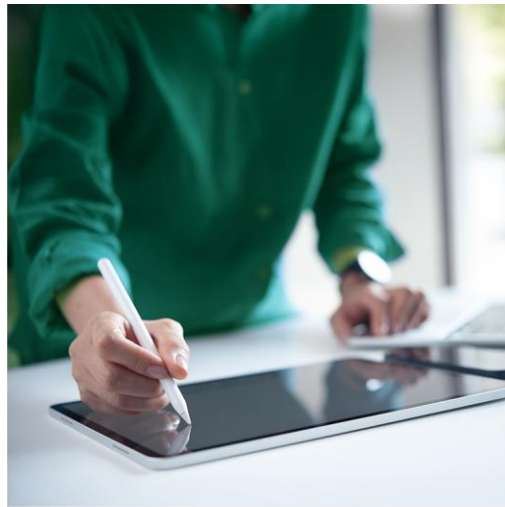


Kinetic Technologies

PRODUCT GUIDE 2026^{Q4}



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Kinetic Technologies Product Guide Q4 2026

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Protection

Protection & System Monitoring

Overvoltage and Surge Protection ICs

Single-channel Load Switches with OVP													
Device	VIN (V)	VIN MAX (V)	SURGE (V)	RON (mΩ)	IMAX (A)	RBP	RCP	OCP	CLP	OTG	OVP Adj	Package	Package Size (L x W)
KTS1640/1	6.0 - 40	-30 to 42		41	6.0	✓						TDFN-12	4.0 x 4.0mm
KTS1642Q/AQ ¹	4.0 - 40	-30 to 42		41	6.0	✓						TDFN-12	4.0 x 4.0mm
KTS1670	2.7 - 30	30		60	3.0					✓	✓	WLCSP-6 UDFN-8	1.0 x 1.2mm 2.0 x 2.0mm
KTS1671	2.7 - 28	30		60	3.0					✓	✓	WLCSP-6	1.0 x 1.2mm

Current Limited Load Switches with Reverse Blocking Protection													
Device	VIN (V)	VIN MAX (V)	SURGE (V)	RON (mΩ)	IMAX (A)	RBP	RCP	OCP	CLP	OTG	OVP Adj	Package	Package Size (L x W)
KTS1688	2.5 - 5.5	28 (V _{OUT})		68	2.5	✓			✓	✓		WLCSP-9	1.22 x 1.22mm
KTS1661	2.5 - 5.5	29 (V _{OUT})		53	2.5	✓	✓	✓	✓	✓		WLCSP-9	1.31 x 1.31mm
KTS1665 ²	2.5 - 5.5	29 (V _{OUT})		53	3.3	✓	✓	✓	✓	✓		WLCSP-9	1.31 x 1.31mm

Single-Channel Load Switches with OVP and Surge Protection													
Device	VIN (V)	VIN MAX (V)	SURGE (V)	RON (mΩ)	IMAX (A)	RBP	RCP	OCP	CLP	OTG	OVP Adj	Package	Package Size (L x W)
KTS1650B	2.3 - 28	29	±200	36	4.5					✓	✓	WLCSP-12	1.49 x 2.16mm
KTS1652	2.75 - 21.5	28	±200	9	6.0					✓		WLCSP-20	2.46 x 1.97mm
KTS1668	2.3 - 30	30	±100	38	4.0					✓	✓	WLCSP-12	1.29 x 1.99mm
KTS1675	3.0 - 28	28	±100	20	5.0	✓				✓		WLCSP-20	2.22 x 1.82mm
KTS1675A	3.0 - 28	28	±100	25	5.0	✓				✓		WLCSP-20	2.22 x 1.82mm
KTS1676	3.0 - 28	28	±100	20	5.0	✓				✓		WLCSP-20	2.22 x 1.82mm
KTS1680A/C/D/E	2.3 - 28	29	±100	28	4.5					✓	✓	WLCSP-12	1.21 x 1.7mm
KTS1681A	2.3 - 28	29	±100	28	4.0					✓	✓	WLCSP-12	1.21 x 1.7mm
KTS1682	2.3 - 28	29	±100	38	4.0					✓	✓	WLCSP-12	1.29 x 1.99mm
KTS1686	3.0 - 28	29	±100	65	4.5	✓				✓	✓	WLCSP-15	1.6 x 2.1mm
KTS1693 ²	2.7 - 28	30	±110	9	6.0			✓		✓	✓	WLCSP-20	2.13 x 1.905mm

Single Input, Dual Output Load Switches with OVP and Surge Protection													
Device	VIN (V)	VIN MAX (V)	SURGE (V)	RON (mΩ)	IMAX (A)	RBP	RCP	OCP	CLP	OTG	OVP Adj	Package	Package Size (L x W)
KTS1678B	2.7 - 13.5	-2 to 28	±100	23/30	3.5/6	✓				✓		WLCSP-28	1.67 x 2.96mm

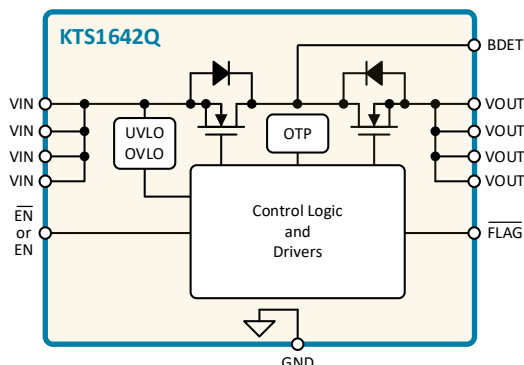
Definitions

OVP - Overvoltage protection	OCP - Overcurrent protection	CLP - Current Limit Protection	RBP - Reverse blocking protection	RCP - Reverse current protection	OTG - USB On-The-Go Operation
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1. AEC-Q100 Automotive qualified parts available. Please contact your local sales representative.

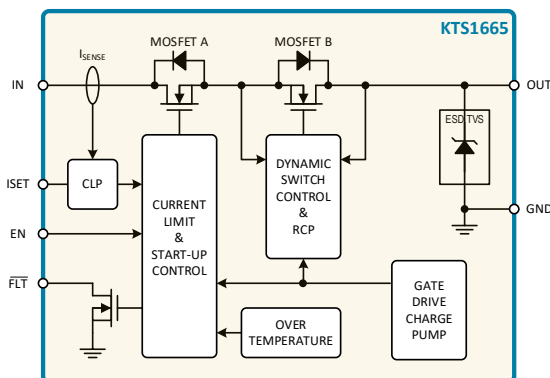
2. Safety approvals: UL 2367 and IEC 62368-1.

Automotive Single-channel Load Switch with OVP



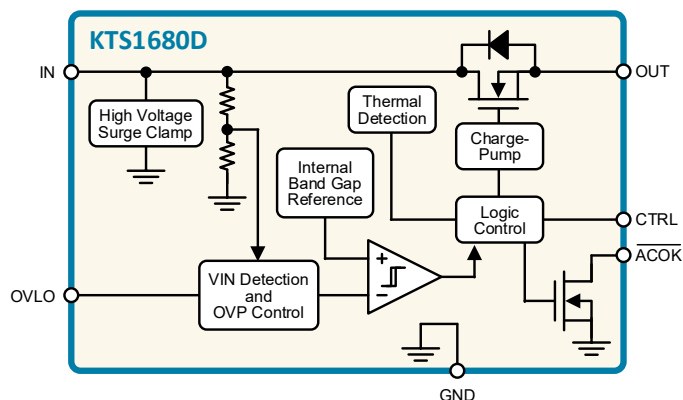
6.0A, Fixed OVP with -28V Reverse Input Voltage Protection and RBP

Current Limited Load Switch with Reverse Blocking Protection



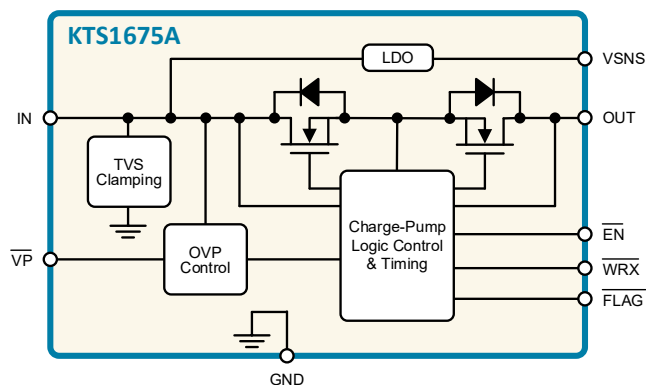
3.3A, 5V Adjustable Current Limit Load Switch with RBP, RCP and SCP on V_{OUT}

Single-Channel Load Switches with OVP and Surge Protection



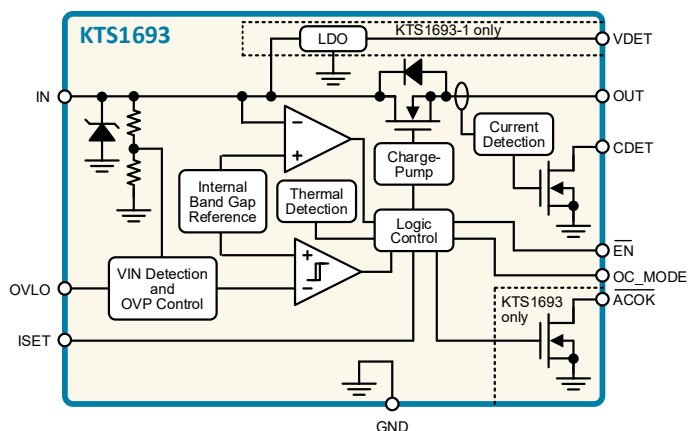
20V/4.5A, 13.9V Fixed or Adjustable OVP with $\pm 100V$ Surge Protection

Single-Channel Load Switches with OVP and Surge Protection



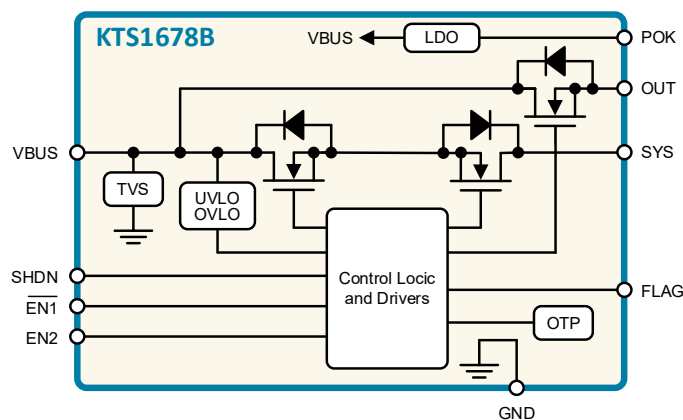
20V/5A, $\pm 100V$ Surge, 13V/23.4V Fixed OVP with RBP & OTG

Single-Channel Load Switches with OVP and Surge Protection



20V/6A, $\pm 100V$ Surge, 5.95V Fixed or Adjustable OVP with adj. OCP

Single Input, Dual Output Load Switches with OVP and Surge Protection



Single Input, Dual Output, 20V, 3.5A/6A, $\pm 100V$ Surge, 13.9V/5.25V Fixed OVP with RBP

Overvoltage and Surge Protection ICs (continued)

Flat-Clamp TVS for Surge and ESD Protection								
Device	V _{RWM} (V)	V _{BR} MAX (V)	SURGE (V)	I _{PP} MAX (8/20μs) (A)	V _{CL} MAX (8/20μs) (V)	P _{PP} MAX (8/20μs) (W)	Package	Package Size (L x W)
KTS1287-25	25	25.5	±250V	110	30.5	3300	WLCSP-6	1.66 x 1.56mm
KTS1287-28	28	28.5	±250V	110	33.5	3300	WLCSP-6	1.66 x 1.56mm
KTS1289	33	33.6	±200V	80	39	3300	WLCSP-6	1.66 x 1.56mm

USB-PD Protected Switches													
Device	V _{IN} (V)	V _{IN} MAX (V)	SURGE (V)	R _{ON} (mΩ)	I _{MAX} (A)	RBP	RCP	OCp	CLP	OTG	OVP Adj	Package	Package Size (L x W)
Current Sink													
KTS1672	3.0 - 24	29	35	25	5.0	✓	✓	✓			✓	WLCSP-12	1.64 x 2.18mm
KTS1673A/B	3.0 - 24	29	35	22	5.0	✓	✓	✓			✓	WLCSP-12	1.64 x 2.18mm
KTS1677A	3.0 - 23	30	±90	30	5.0	✓		✓			✓	WLCSP-15	2.57 x 1.57mm
KTS1691A/B	3.0 - 24	29	35	14.5	7.0	✓	✓	✓			✓	WLCSP-15	2.86 x 1.68mm
KTS1697A	3.0 - 23	29	±90	11	7.0	✓	✓	✓			✓	WLCSP-25	2.7 x 2.7mm
KTS1655	3.0 - 24	29	35	14	7.0	✓	✓	✓			✓	WLCSP-20	2.49 x 2.23mm
KTS1698	3.0 - 23	29	±90	25	5.0	✓	✓	✓			✓	WLCSP-15	2.62 x 1.64mm
KTS1897	3.0 - 33	39	45	24	6.5	✓	✓	✓			✓	WLCSP-20	2.56 x 2.00mm
KTS1898	3.0 - 33	35	±100	24	6.5	✓	✓	✓			✓	WLCSP-25	2.56 x 2.56mm
Current Source													
KTS1690A ³	2.5 - 5.5	29 (V _{OUT})	±80	30	3.3	✓	✓	✓	✓	✓		WLCSP-16	1.98 x 1.98mm
KTS1890 ³	2.5 - 5.5	35 (V _{OUT})	±130	27	4.0	✓	✓	✓	✓	✓		WLCSP-20	2.49 x 1.99mm
Current Source or Current Sink													
KTS1673C/D	3.0 - 24	29	35	22	5.0			✓		✓	✓	WLCSP-12	1.64 x 2.18mm
KTS1691C/D	3.0 - 24	29	35	14.5	7.0			✓		✓	✓	WLCSP53-15	2.86 x 1.68mm
KTS1800	3.0 - 55	59	±180	25	7.0	✓	✓	✓	✓	✓	✓	WLCSP-63	4.81 x 3.79mm
KTS1801	3.0 - 55	56	±130	31	6.0	✓	✓	✓		✓	✓	WLCSP-42	3.09 x 3.86mm
KTS1865 ³	3.0 - 23	29	±100	20	6.5	✓	✓	✓	✓	✓	✓	WLCSP-20	2.71 x 2.16mm

Definitions

OVP - Overvoltage protection	OCp - Overcurrent protection	CLP - Current Limit Protection	RBP - Reverse blocking protection	RCP - Reverse current protection	OTG - USB On-The-Go Operation
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USB Data Line Protection ICs

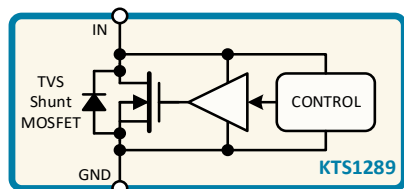
Device	V _{IN} (V)	Protects			Protection			Switches		Package	Package Size (L x W)
		D+/D-	CC1/2	SBU1/2	OVP	Surge	ESD	R _{ON}	Cap		
KTU1001A	2.7 - 5.5	✓ ⁴		✓ ⁴	+24V in 100ns	+25V		6Ω	4.0pF	WLCSP-12	1.17 x 1.57mm
KTU1101	2.5 - 5.5		✓	✓	+24V in < 15ns	CC1/2 = ±80V SBU1/2 = ±35V	Air: ±15kV Contact: ±8kV	CC = 0.3Ω SBU = 4Ω	CC = 370pF SBU = 27pF	WLCSP-20	1.7 x 2.1mm
KTU1120	2.5 - 5.5		✓	✓ OVP=3.83V	+24V in < 15ns	CC1/2 = ±40V SBU1/2 = ±30V	Air: ±15kV Contact: ±8kV	CC = 0.27Ω SBU = 3Ω	CC = 40pF SBU = 11pF	WLCSP-16	1.7 x 1.7mm
KTU1121A ⁵	2.5 - 5.5		✓	✓ OVP=4.8V	+24V in < 70ns	CC1/2 = ±40V SBU1/2 = ±30V	Air: ±15kV Contact: ±8kV	CC = 0.27Ω SBU = 3Ω	CC = 40pF SBU = 11pF	WLCSP-16 TQFN-20	1.7 x 1.7mm 3.0 x 3.0mm
KTU1128 ⁵	2.5 - 5.5		✓	✓ OVP=4.8V	+32V in < 30ns	CC1/2 = ±60V SBU1/2 = ±40V	Air: ±25kV Contact: ±10kV	CC = 0.27Ω SBU = 3Ω	CC = 33pF SBU = 11pF	WLCSP-16 WQFN-20	1.694 x 1.694mm 3.0 x 3.0mm
KTU1131 ⁵	2.5 - 5.5	✓	✓	✓	+22V in < 15ns		Air: ±10kV Contact: ±5kV	CC = 0.27Ω SBU = 3Ω	CC = 15pF SBU = 6pF	UQFN-20	3.0 x 3.0mm
KTU1133 ⁵	2.7 - 4.5		✓	✓	+63V in < 60ns	CC1/2 = ±90V SBU1/2 = ±90V	Air: ±15kV Contact: ±8kV	CC = 300mΩ SBU = 4.5Ω	CC = 50pF SBU = 9pF	WQFN-20	3.0 x 3.0mm

3. Safety approvals: UL 2367 and IEC 62368-1.

4. KTU1001A can protect D+/D- or SBU1/2.

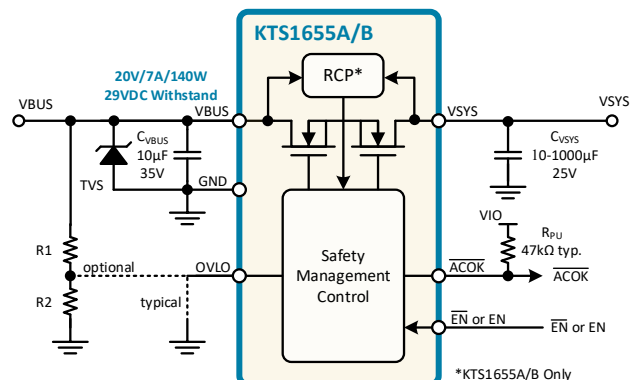
5. Thunderbolt™ Compatible.

Flat-Clamp TVS for Surge and ESD Protection



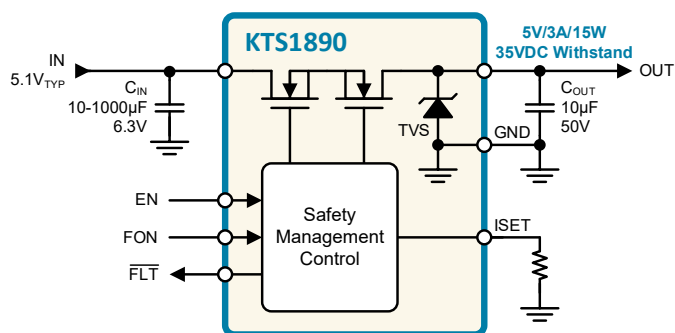
±200V Surge Protection Active Flat-Clamp TVS for EPR 28V System

USB-PD Protected Switch – Current Sink



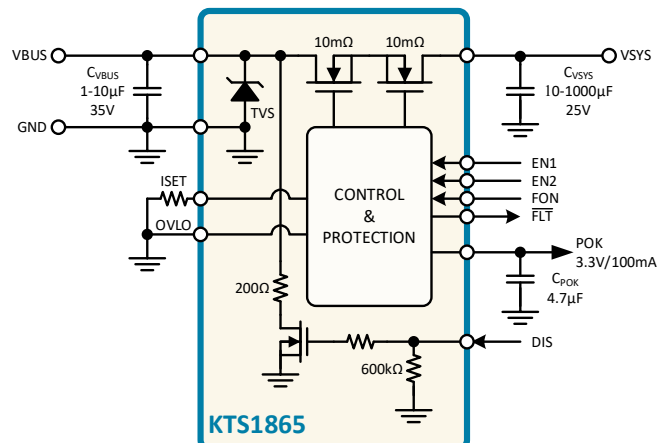
20V/7A/140W, 24V Fixed or Adjustable OVP with RBP, RCP and SCP

USB-PD Protected Switch – Current Source



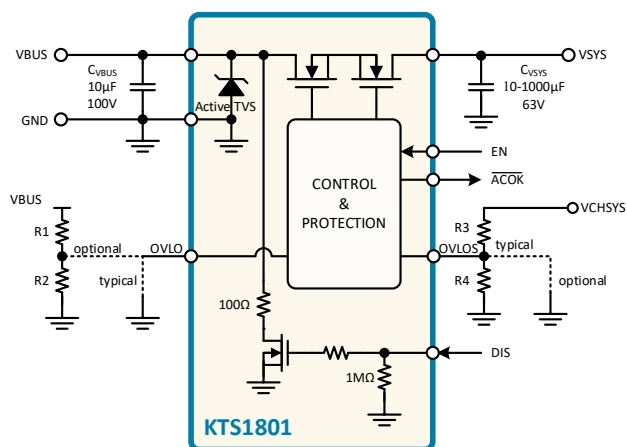
4.0A, ±130V Surge, 5V Adjustable Current Limit Load Switch with RBP, RCP and SCP on V_{OUT}

USB-PD Protected Switch – Current Source/Sink



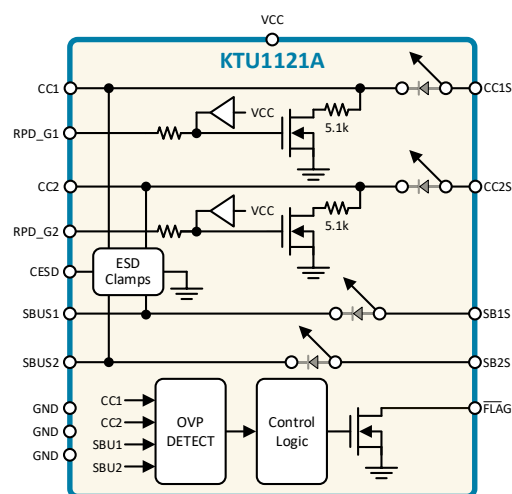
20V/6.5A, ±100V Surge, Bi-Directional Load Switch with OVP, OCP, RBP, RCP, CL, SCP and POK Safe LDO

USB-PD 48V EPR Protected Switch – Current Source/Sink



**REPLACE W/ KTS1801 Block Diagram
48V/7A, ±180V Surge, Bi-Directional Load Switch with OVP, OCP, RBP, RCP, CL, SCP and POK Safe LDO**

USB Data Line Protection



USB Type-C Port Protector for CC and SBU Pins

Smart Push Button Reset ICs

Part Number	VIN (V)	Quiescent Current (μA)	Ship Mode Current (μA)	Reset Request Time (s)	Discharge Paths	Discharge Time (ms)	Discharge Current (mA)	Package	Package Size
KTS1612	2.2 - 5.5	<1	<1	10	2	400	52	UQFN2.0x1.5-10	2.0 x 1.5mm
KTS1613	1.6 - 5.5	<1	<1	10		400		UQFN2.0x1.5-10	2.0 x 1.5mm

Interface & Isolation

General-Purpose Input/Output (GPIO) ICs

General Purpose I/O Expanders							
Device	VIN (V)	Max. Driver Current per Channel (mA)	# of I/Os	Interrupt Out	Addresses	Package	Package Size (L x W)
KTS1620	1.65 - 5.5	25	24	✓	4	FO-WLP66-36 TQFN55-32L	2.6 x 2.6mm 5.0 x 5.0mm
KTS1622	1.65 - 5.5	25	16	✓	4	FO-WLP55-25 TQFN44-24L	2.0 x 2.0mm 4.0 x 4.0mm
KTS1625	1.65 - 5.5	25	16	✓	8	WQFN44-24	4.0 x 4.0mm

Load Switch & eFuse ICs

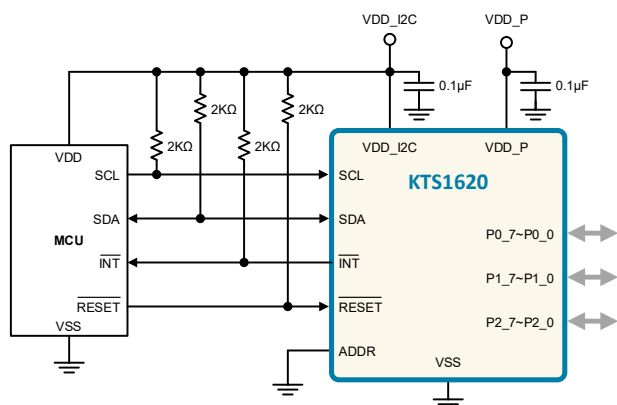
Load Switches							
Device	VIN (V)	RON (mΩ)	IMAX (A)	OVP	RBP	Package	Package Size (L x W)
KTS1601	1.5 - 5.5	24.0 @3.3VIN	2.0		✓	WLCSP-4	1.0 x 1.0mm
KTS1605	1.5 - 5.5	13.4 @3.3VIN	5.0		✓	WLCSP-6	1.0 x 1.5mm
KTS1640/1	6.0 - 40	41	6.0	✓	✓	TDFN-12	4.0 x 4.0mm
KTS1642Q/AQ ⁶	4.0 - 40	41	6.0	✓	✓	TDFN-12	4.0 x 4.0mm

Load Switch Controllers						
Device	VIN (V)	Reverse Voltage Rating	Gate Peak Sink Current (A)	Regulated Source to Drain Voltage (mV)	Package	Package Size (L x W)
KTS1900 (Q ⁶)	4.0 - 60	-65V	1.5	40	SOT23-6	2.9 x 1.6mm

eFuses							
Device	VIN (V)	RON (mΩ)	Min I _{LIM} (A)	Max I _{LIM} (A)	Soft Start	Fault Response	Package
KTS1630A	4.5 - 18	31	1	5.1	Adjustable	Auto-Retry	VDFN-10
KTS1630B	4.5 - 18	31	1	5.1	Adjustable	Latched-off	VDFN-10

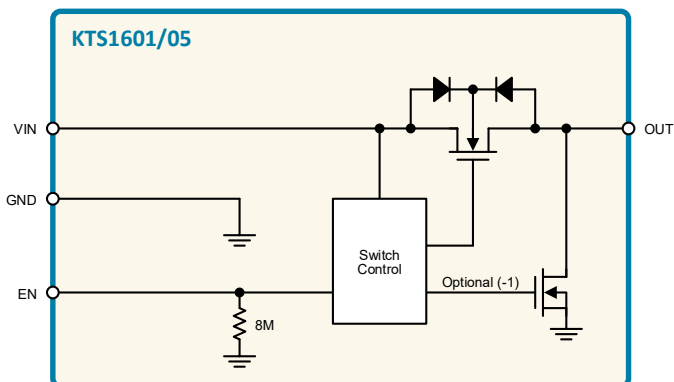
6. AEC-Q100 Automotive qualified parts available. Please contact your local sales representative.

General Purpose I/O Expander IC



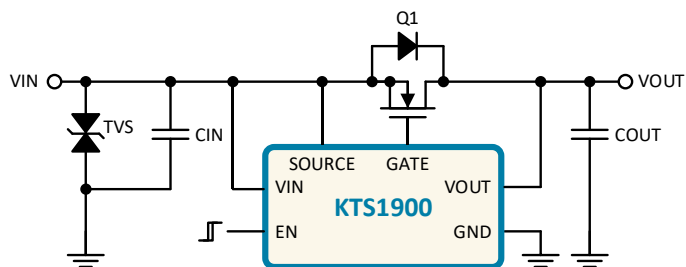
Low Voltage 24-bit I²C I/O Expander

Load Switch IC



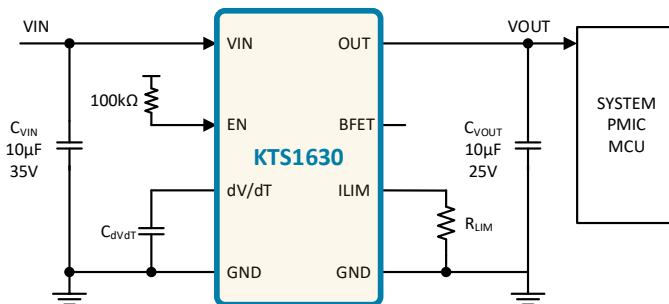
2A/5A Slew Rate Controlled Load Switch with RBP

Load Switch Controller



Ideal Diode and Load Switch Controller with Reverse Input Protection

eFuse



5V eFuse with Current Limit Control and Reverse Blocking FET Control

Conversion

DC to DC

DC-DC Converter ICs

Buck Regulators										
Device	VIN (V)	VOUT (V)	FSW (MHz)	IMAX Current (mA)	IQ (μA)	Interface	Output Auto-Discharge	OptiComp™	Package	Package Size (L x W)
KTB8311-BT ⁷	2.5 - 5.5	0.5 - 3.3	2	2500	39	EN/MODE (V _{OUT} /FPWM/Auto-skip)	Yes		PwrCSP™ HP-WLCSP-6	1.464mm x 1.064mm
KTB8316-AA ⁷	2.5 - 5.5	0.3 - 1.65	1	2500	39	EN/MODE (V _{OUT} /FPWM/Auto-skip)	Yes		PwrCSP™ HP-WLCSP-6	1.464mm x 1.064mm
KTB8316-BD ⁷	2.5 - 5.5	0.6 - 1.8	2	2500	39	EN/MODE (V _{OUT} /FPWM/Auto-skip)	Yes		PwrCSP™ HP-WLCSP-6	1.464mm x 1.064mm
KTB8316-CJ	2.5 - 5.5	1.0 - 3.3	4	2500	39	EN/MODE (V _{OUT} /FPWM/Auto-skip)	Yes		PwrCSP™ HP-WLCSP-6	1.464mm x 1.064mm
KTB8331	2.5 - 5.5	0.6 - 3.345	2.4	3000	48	I ² C/EN	Yes		WLCSP-15	1.31mm x 2.015mm
KTB8399	2.5 - 5.5	0.6 - 3.345	2.4	3000	46	I ² C/EN	Yes		WLCSP-15	1.34mm x 2.045mm
KTB8370A	4.7 - 17	5.0	0.5	5000	50	EN/PG	Yes		WLCSP-20	1.7mm x 2.0mm
KTB8370B	4.7 - 17	3.3	0.5	5000	50	EN/PG	Yes		WLCSP-20	1.7mm x 2.0mm
KTB8370C	4.7 - 17	1.8	0.5	5000	50	EN/PG	Yes		WLCSP-20	1.7mm x 2.0mm
KTB8371	4.7 - 17	0.8 - 5.5	0.5	5000	50	I ² C	Yes		WLCSP-20	1.7mm x 2.0mm
KTB8372C	4.7 - 18	1.8	0.5	5000	50	EN/PG	Yes		FCQFN-11	2.5mm x 2.2mm
KTB8375	4.5 - 24	0.55 - 6.0	<2.0	6000	45	I ² C/EN	Yes		FCQFN-12	2.5mm x 3.0mm
KTB8252 ⁷	4.5 - 24	0.6 - 5.5	0.7	8000	93	EN/PG	Yes		VQFN22-11	2.0mm x 2.0mm
KTB8253 ⁷	4.5 - 24	3.36	0.7	8000	22	EN/PG	Yes		VQFN22-11	2.0mm x 2.0mm
KTB8400	2.5 - 5.5	0.6 - 3.345	2.4	3000	46	I ² C/EN	Yes	✓	WLCSP-15	1.34mm x 2.045mm

Dual Buck + Quad LDO Regulators								
Device	VIN (V)	VOUT (V)	IMAX Current (mA)	IQ (μA)	Interface	Output Auto-Discharge	Package	Package Size (L x W)
KTZ8701	2.7 - 5.5	Bucks: 0.6 - 3.3, 12mV Steps LDOs: 1.2 - 3.5, 25mV Steps	Bucks: 1200 LDOs: 300	140	I ² C	Yes	WLCSP-25	2.42mm x 2.35mm

Boost Regulators							
Device	VIN (V)	VOUT (V)	IMAX Current (mA)	IQ (μA)	Interface	Package	Package Size (L x W)
KTC2110	2.5 - 5.5	5	1000	60	EN/PT	WLCSP-9	1.38mm x 1.38mm
KTC2110A	2.5 - 5.5	5.4	1000	60	EN	WLCSP-9	1.38mm x 1.38mm
KTC2115	2.5 - 5.5	5	1500	56	EN/PT	WLCSP-9	1.27mm x 1.30mm

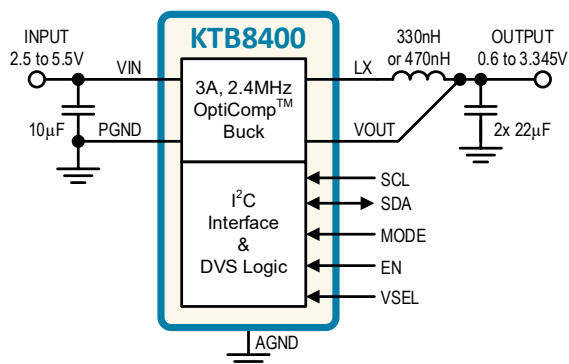
Isolated DC-DC Converters/Controllers									
Device	VIN (V)	VOUT (V)	Output Power (W)	IQ (mA)	Integrated Isolated Feedback	Isolation Voltage	DC-DC Topology	Package	Package Size (L x W)
KTB1095 ⁸	5 - 80	3.3 - 24	70	5	✓	3kV	Synchronous Flyback	SOP-16	10.3mm x 7.5mm
KTB1100 ⁸	7 - 80	3.3 - 48	15	2.5	✓	3kV	Flyback with FET	SOP-16	10.3mm x 7.5mm
KTB2140	8 - 80	3.3 - 48	200	1	—	external	Flyback or Forward, Active Clamp	WQFN-16	3mm x 3mm

Non-Isolated DC-DC Converters/Controllers								
Device	VIN (V)	VOUT (V)	Output Power (W)	IQ (mA)	Interface	DC-DC Topology	Package	Package Size (L x W)
KTC3500	3.5 - 60	3.3 - 48	100	0.5	EN	Boost, Flyback, SEPIC	DFN33-10	3mm x 3mm

7. Please contact Kinetic Technologies Sales for availability.

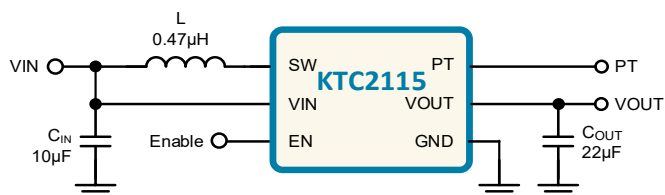
8. Safety approval: UL1577.

Buck Converter



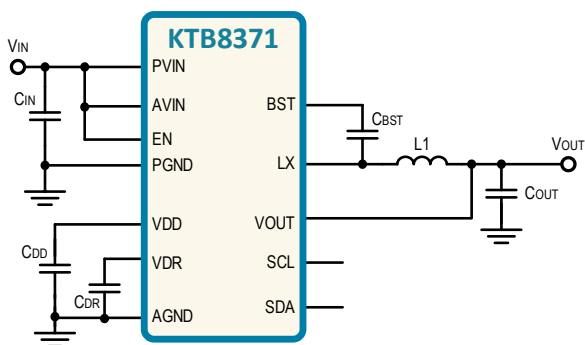
3A Synchronous AOT Buck with OptiComp™

Boost Converter



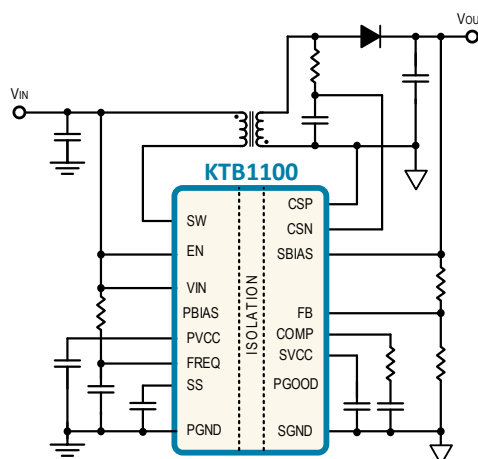
1.5A, Low I_Q, Synchronous Boost

Buck Converter



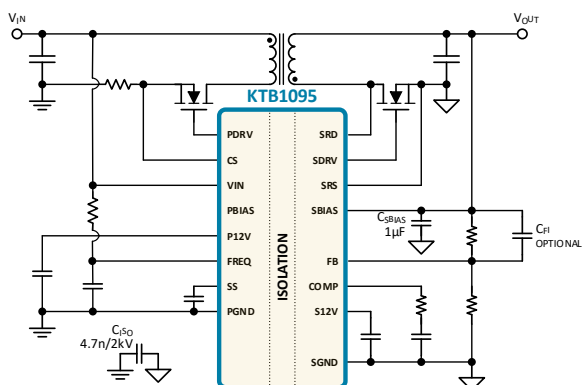
4.7V to 17V Input, 5A Synchronous Buck Regulator with I²C Interface

Isolated Flyback Converter



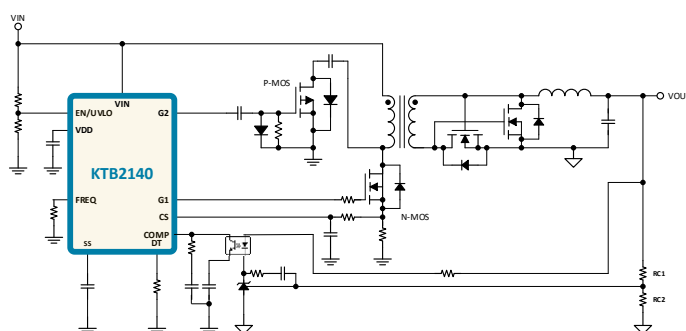
Isolated Flyback Regulator with Integrated Feedback and Digital Isolator

Isolated Flyback Converter



Isolated Flyback Regulator with Integrated Feedback and Digital Isolator

Isolated Flyback or Forward Converter



Active Clamp Current-Mode PWM Controller

Specialized ICs

Display Power

Camera LED Flash Driver ICs

High Current LED Flash Drivers							
Device	VIN (V)	# LED Channels	IMAX (A)	I ² C	Type	Package	Package Size (L x W)
KTD2688A	2.7 - 5.5	2	1.5/1.5	✓	BOOST	WLCSP-12	1.3 x 1.57mm
KTD2686	2.7 - 5.5	3	1.5/1.0/0.5	✓	BOOST	WLCSP-12	1.42 x 1.66mm
KTD2690	2.7 - 5.5	1	1.5	✓	BOOST	WLCSP-8/ UDFN-10 ⁹	1.519 x 0.808mm / 2mm x 2mm
KTD2691	2.7 - 5.5	1	1.5	✓	LINEAR	WLCSP-8	0.808 x 1.519mm

RGB LED Driver ICs

Constant Current RGB LED Drivers								
Device	VIN (V)	# LED Channels	IMAX (mA)	Levels	Interface	AECQ100 Approved	Package	Package Size (L x W)
KTD2026	2.7 - 5.5	3	24	192	I ² C		UTDFN-8	1.5 x 1.5mm
KTD2027	2.7 - 5.5	4	24	192	I ² C		UTDFN-8	1.5 x 1.5mm
KTD2037	2.7 - 5.5	3	24	191	I ² C		UTDFN-8	1.5 x 1.5mm
KTD2042	2.7 - 5.5	9	24	64	I ² C		UQFN-20	3.0 x 3.0mm
KTD2052A/C ¹⁰	2.5 - 5.5	12	24	192	I ² C		UDFN-8	2.0 x 2.0mm
KTD2052B/D/F ¹⁰	2.5 - 5.5	12	24	192	I ² C		UDFN-8	2.0 x 2.0mm
KTD2058 (Q ¹¹) ¹²	2.5 - 5.5	36	24	192	I ² C	✓	UQFN-20	3.0 x 3.0mm
KTD2059 (Q ¹¹) ¹²	2.5 - 5.5	36	24	192	I ² C	✓	UQFN-20	3.0 x 3.0mm
KTD2060 (Q ¹¹) ¹²	2.5 - 5.5	36	24	192	I ² C	✓	UQFN-20	3.0 x 3.0mm
KTD2061 (Q ¹¹)	2.5 - 5.5	36	24	192	I ² C	✓	UQFN-20	3.0 x 3.0mm
KTD2064A	2.5 - 5.5	24	24	192	I ² C		UQFN-20	3.0 x 3.0mm
KTD2064B ¹³	2.5 - 5.5	24	24	192	I ² C		UQFN-20	3.0 x 3.0mm

IR LED Drivers								
KTD2041	2.7 - 5.5	9	32	64	I ² C		UQFN-20	3.0 x 3.0mm

9. Please contact Kinetic Technologies Sales for availability.

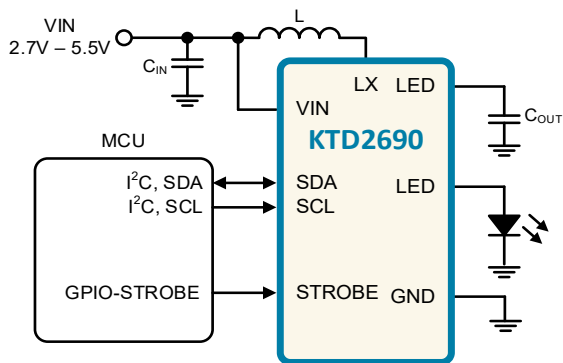
10. KTD2052A/C = defaults disabled at initial power-up; KTD2052B/D/F = execute AutoBreathe™ pattern by default at initial power-up or at reset

11. AEC-Q100 Automotive qualified parts available. Please contact your local sales representative.

12. Alternate I²C Address to KTD2061.

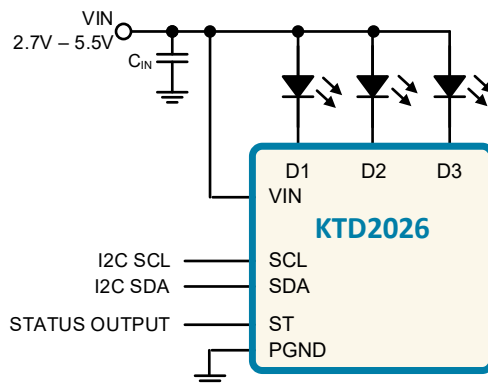
13. Alternate I²C Address to KTD2064A.

Flash LED Driver IC



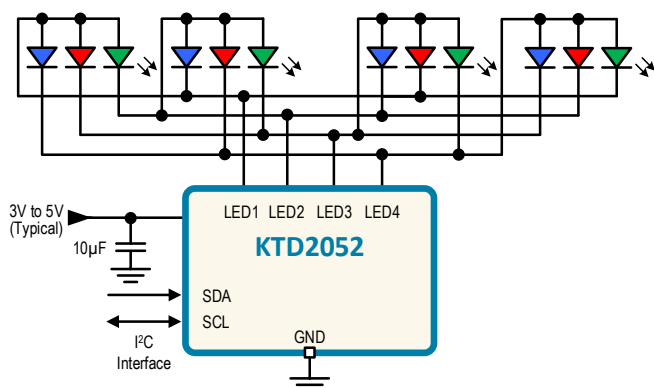
1-Channel, 1.5A Flash/Torch/IR Mode LED Driver

Constant Current RGB LED Driver IC



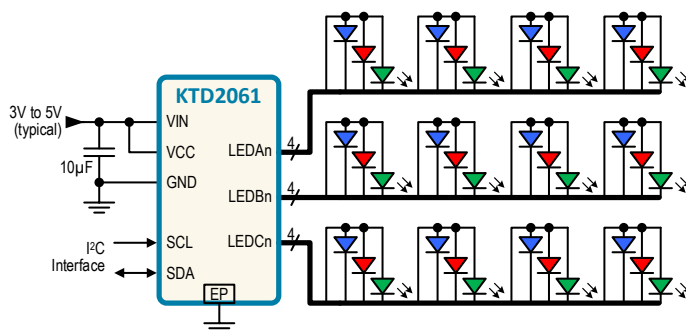
3-Channel RGB LED Driver with I²C Dimming

Constant Current RGB LED Driver IC



12-Channel RGB LED Driver with I²C Control

Constant Current RGB LED Driver IC



36-Channel RGB LED Driver with I²C Control

LCD Backlight Driver ICs

Single-Channel Backlight LED Drivers										
Device	VIN (V)	# LED Channels	LEDs/CH	Total LEDs	Switch Current (A)	I ² C	Single Wire	PWM	OVP (V)	Package
KTD2801B	2.7 - 5.5	1	6	6	0.52		✓	✓	24	TDFN22-6
KTD2801A	2.7 - 5.5	1	8	8	0.52		✓	✓	30	TSOT23-6/TDFN22-6
KTD2801	2.7 - 5.5	1	10	10	0.52		✓	✓	36	TSOT23-6/TDFN22-6
KTD2500	2.7 - 5.5	1	10	10	0.75		✓	✓	38	TDFN22-6
KTD2505R	2.7 - 5.5	1	10	10	1.2		✓	✓	38	TDFN22-6
KTZ8850 ¹⁴	3.0 - 5.5	1	10	10	1.3	✓		✓	Adj < 36	WLCSP-18

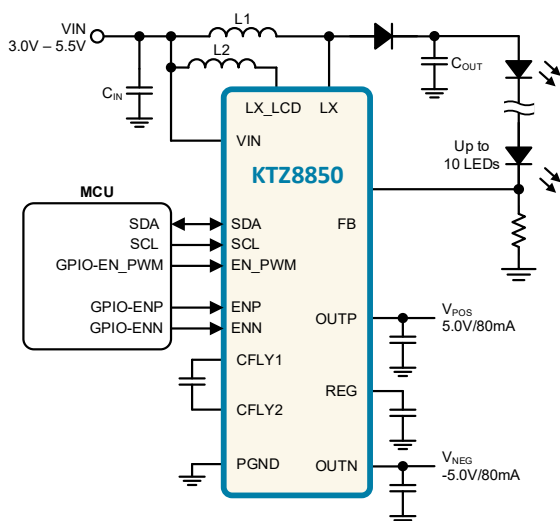
Multi-Channel Backlight LED Drivers										
Device	VIN (V)	# LED Channels	LEDs/CH	Total LEDs	Switch Current (A)	I ² C	Single Wire	PWM	OVP (V)	Package
KTD3133	2.7 - 5.5	2	8	16	1.8	✓		✓	25.9/32	WLCSP-12
KTD3134	2.7 - 5.5	2	8	16	2.6	✓		✓	25.9/32	WLCSP-12
KTD3136	2.7 - 5.5	3	8	24	2.6	✓		✓	25.9/32	WLCSP-12
KTD3137	2.7 - 5.5	3	8	24	2.6	✓		✓	25.9/32	WLCSP-12
KTD3156B	2.7 - 5.5	6	10	60	2.5			✓	Adj < 40	TQFN33-16
KTZ8863A ¹⁴	2.9 - 5.5	3	8	24	2.1	✓		✓	Adj < 32	WLCSP-24
KTZ8864A ¹⁴	2.7 - 5.5	4	8	32	2.1	✓		✓	Adj < 32	WLCSP-24
KTZ8866 ¹⁴	2.7 - 5.5	6	10	60	2.5	✓		✓	Adj < 40	WLCSP-28
KTZ8868 ¹⁴	2.7 - 5.5	8	10	80	2.5	✓		✓	Adj < 40	WQFN55-32
KTZ8869 ¹⁴	2.7 - 5.5	8	10	80	2.5	✓		✓	Adj < 40	WQFN55-32

LCD Bias Supply ICs

LCD Bias Power Supplies							
Device	VIN (V)	I ² C	Max. Current per Output (mA)	VOUT (V)	Accuracy (%)	IQ Shutdown (SDA=SCL=1.8V) (μA)	Package
KTD2151	2.7 - 5.5	✓	80	4.0~5.2V, -4.0~-5.2V, 100mV Steps	1.5	6	WLCSP-15
KTZ8850 ¹⁴	3.0 - 5.5	✓	80	4.0~6.3V, -4.0~-6.3V, 12.5mV Steps	2.0	1	WLCSP-18
KTZ8863A ¹⁴	2.9 - 5.5	✓	150	4.0~6.3V, -4.0~-6.3V, 50mV Steps	1.5	1	WLCSP-24
KTZ8864A ¹⁴	2.7 - 5.5	✓	150	4.0~6.3V, -4.0~-6.3V, 50mV Steps	1.5	1	WLCSP-24
KTZ8866 ¹⁴	2.7 - 5.5	✓	200	4.0~6.3V, -4.0~-6.3V, 50mV Steps	1.5	1	WLCSP-28
KTZ8868 ¹⁴	2.7 - 5.5	✓	250	4.0~6.3V, -4.0~-6.3V, 50mV Steps	1.5	1	WQFN55-32
KTZ8869 ¹⁴	2.7 - 5.5	✓	300	4.0~6.3V, -4.0~-6.3V, 50mV Steps	1.5	1	WQFN55-32

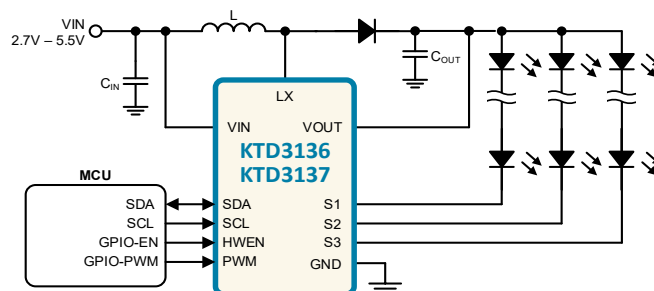
14. Integrated LED Driver IC and LCD Bias IC.

Single-Channel LED Backlight Driver IC with LCD Bias



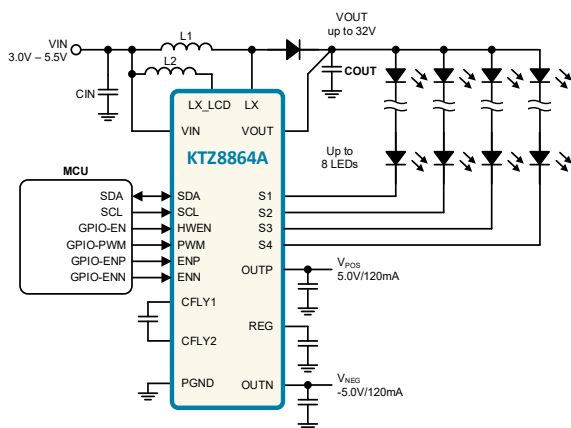
Complete LCD Backlight and Bias Power

Multi-Channel LED Backlight Driver IC



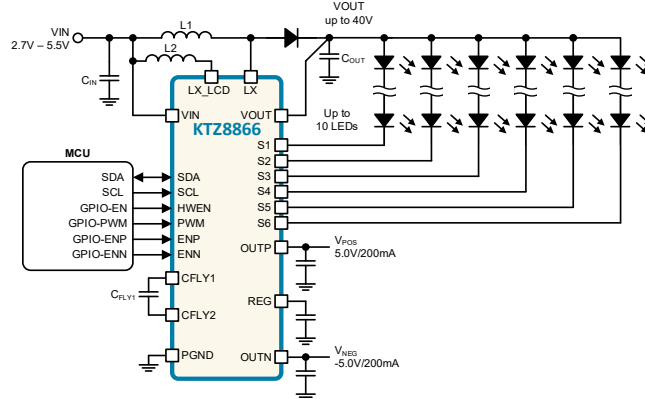
3-Channel, 2.6A/32V Integrated Switch (KTD3136)
with Panel Flash (KTD3137)

Multi-Channel LED Backlight Driver IC with LCD Bias



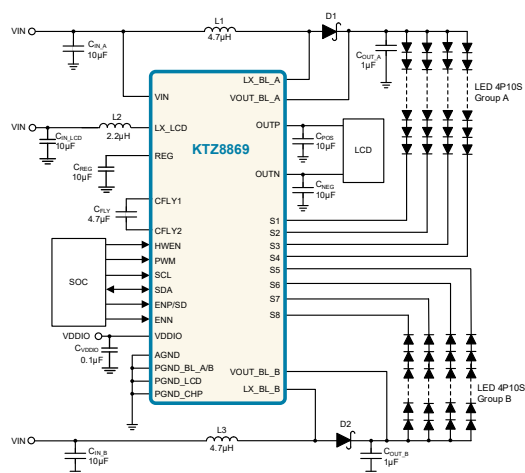
4-Channel, Complete LCD Backlight and Bias Power

Multi-Channel LED Backlight Driver IC with LCD Bias



6-Channel, Complete LCD Backlight and Bias Power

Multi-Channel LED Backlight Driver IC with LCD Bias



8-Channel, Complete LCD Backlight and Bias Power

Power over Ethernet

Power PD Controller ICs

Device	VIN (V)	Output Power (W)	802.3af/at/bt Power Level				Key Description	Power Supply Configuration				Package
			Type 1	Type 2	Type 3	Type 4		Flyback	Forward	PSR	Buck	
KTA1136	37 - 57	13	✓				PD+DC/DC Converter and FET	✓		✓	✓	QFN44-16
KTA1137A	9.5 - 57	30	✓	✓			PD and DC/DC	✓		✓	✓	QFN55-20
KTB1095	5 - 80	70	✓	✓	✓	✓	Synchronous Flyback ¹⁵	✓				SOP-16
KTA1140	9.5 - 57	71	✓	✓	✓	✓	PD Interface Controller					WQFN55-20
KTA1142	37 - 57	72	✓	✓	✓	✓	PD+DC/DC Controller	✓	✓		✓	WQFN44-32
KTA1170	2.7 - 75	71	✓	✓	✓	✓	Dual MOSFET Bridge Rectifier					WDFN44-8
KTB2140	8 - 80	200	✓	✓	✓	✓	DC/DC	✓	✓	✓	✓	WQFN33-16

PoE Modules

Device	VIN (V)	VOUT (V)	Output Power (W)	Description
KPM5200 Series	37 - 57	5, 12	12.95	IEEE 802.3af Class Programmable PoE PD Module
KPM5500 Series	37 - 57	12, 24	24	IEEE 802.3at Compliant PoE PD Module
KPM5900 Series	37 - 57	12, 24	85	IEEE 802.3bt-Compliant, Powered Device Interface Controller

15. With integrated feedback and digital isolator.

Evaluation Kits

Part Number	Evaluation Kit Number	Description
KTA1137A	KTA1137AEUAB-MMEV02	IEEE 802.3at PoE PD with Integrated DC-DC Controller
KTA1140 + KTB1095 + KTA1170	KTA1140EUAA-WA-MCEV01	IEEE 802.3af/at/bt PoE PD and Flyback Controller (includes: <i>KTB1095</i> and <i>KTA1170</i>)
KTA1140 + KTB2140 + KTA1170	KTA1140EUAA-WB-MCEV01	IEEE 802.3af/at/bt PoE PD and Flyback Controller (includes: <i>KTB2140</i> and <i>KTA1170</i>)
KTA1142 forward + KTA1170 + KTS1900	KTA1142EUAT-ZU-MCEV02	IEEE 802.3bt-Compliant, PoE Powered Device with DC-DC Controller (Evaluating forward topology)
KTA1142 flyback + KTA1170 + KTS1900	KTA1142EUAT-ZT-MCEV02	IEEE 802.3bt-Compliant, PoE Powered Device with DC-DC Controller (Evaluating flyback topology)
KTA1170	KTA1170GVAE-MMEV01	Integrated Dual MOSFET Bridge Rectifier for Power over Ethernet
KTB1095	KTB1095EYAA-MMEV01	Synchronous Flyback Controller with Integrated Feedback & Digital Isolator
KTB1100	KTB1100EYAA-MMEV01	15W Flyback Regulator with Digital Isolator Integrated Feedback
KTB2140	KTB2140GUAP-MMEV01	Active Clamp Forward Current-Mode PWM Controller
KTB8316	KTB8316EEAA-CJ-ZZ-MMEV01	4MHz, High Accuracy 2.5A Low-Voltage AOT Synchronous Buck Regulator
KTB8331	KTB8331DEDAA-MMEV02	3A, 2.4MHZ, Low-Voltage, I ² C Programmable Buck Regulator
KTB8400	KTB8400AEDAA-MMEV01	Low Voltage Buck with Accurate F _{SW} and Fast Transient Response
KTC2110	KTC2110ECAA-MMEV02	3.0MHz High Efficiency Low I _Q Boost Regulator
KTC3500	KTC3500EVAC-MMEV01	V _{IN} = 3.5V to 60V Input Boost/SEPIC/Flyback DC-DC Controller
KTD2026	KTD2026EWE-MMEV01	Constant Current RGB LED Driver with I ² C Control
KTD2027	KTD2027EWE-MMEV01	Constant Current RGB/White LED Driver with I ² C Control
KTD2052	KTD2052AEVAA-MMEV01	12-Channel RGB LED Drivers with I ² C Control
KTD2061	KTD2061EUAC-MMEV02	36-Channel RGB LED Drivers with I ² C Control
KTD2690	KTD2690ERAA-MMEV01	Single Flash LED Driver with Programmable 1.5A Current Source
KTS1289	KTS1289ECAE-MMEV01	Flat-Clamp Mini TVS for High Voltage Surge & ESD Protection
KTS1601	KTS1601EUM-1-MMEV01	2.0A Slew Rate Controlled Load Switch with Reverse Blocking
KTS1622	KTS1622EUAA-MMEV01	Low Voltage 16-Bit I ² C-bus I/O Expander
KTS1630	KTS1630AEVAD-MMEV01	5A eFuse with Current Limit Control and Reverse Blocking FET Control
KTS1640	KTS1640EDV-MMEV01	V _{IN} = 6V to 40V, Load Switch with OVP and Reverse Polarity Protection
KTS1642Q	KTS1642QGDV-MMEV01	V _{IN} = 4V to 40V, Load Switch with OVP and Reverse Polarity Protection $\overline{\text{EN}}$
KTS1642AQ	KTS1642AQGDV-MMEV01	V _{IN} = 4V to 40V, Load Switch with OVP and Reverse Polarity Protection EN
KTS1665	KTS1665ECAC-MMEV01	USB VBUS 3.3A Ideal Diode Load Switch with Current Limit
KTS1677A	KTS1677AEVH-MMEV01	5A _{RMS} VBUS Current-Sink Protection Load Switch
KTS1688	KTS1688EUH-MMEV01	Low Resistance Load Switch with Current Limit Control & Over-Voltage Reverse Blocking Protection
KTS1690A	KTS1690AEGAA-MMEV01	USB VBUS I _{SOURCE} Load Switch with Current Limit Control
KTS1693	KTS1693EVB-MMEV01	Surge Protected Load Switch with OVP and OCP
KTS1697A	KTS1697AEOAB-MMEV01	7A _{RMS} VBUS Current-Sink Protection Load Switch
KTS1698	KTS1698AEDAB-MMEV01	5A _{RMS} VBUS Current-Sink Protection Load Switch
KTS1897 + KTS1289	KTS1897BEIAD-MMEV01	6A _{RMS} VBUS OVP Load Switch for 28V EPR Systems
KTS1898A	KTS1898AEOAE-MMEV01	6A _{RMS} VBUS I _{SINK} Load Switch for 28V EPR Systems
NEW KTS1900Q Ideal Diode	KTS1900QGXA-ZS-MMEV01	Ideal Diode Controller with Reverse Input Protection
NEW KTS1900Q Load Switch	KTS1900QGXA-ZR-MMEV01	Load Switch Controller with Reverse Input Protection
KTU1108	KTU1108EFAA-MMEV01	USB Type-C Protector for CC Pins
KTU1128	KTU1128EUAA-MMEV01	USB Type-C 28V EPR Port Protector for CC and SBU Pins
KTU1121A	KTU1121AEUAA-MMEV01	USB Type-C Protector for CC and SBU Pins
KTU1133	KTU1133EUAA-MMEV01	USB 48V EPR Port Protector for CC & SBU



A PART OF
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