

車用熱門產品, TI.com 產品搜尋工具, E2E網路論壇 及TI.com客戶支持中心介紹

PY Tsai

應用工程師

TI 車用電源管理IC熱門產品

TI 寬壓電源管理IC產品概要

Pre-regulator for Automotive, Industrial & Telecom Applications

Focus Applications

Automotive
12V/24/48V battery



Industrial
24V & higher Rails

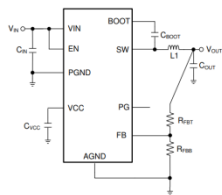


Communications
24V/48V Systems



Products

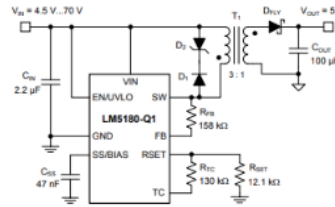
Buck Converters & Controllers



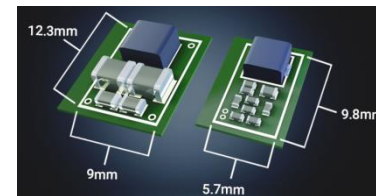
Modules



Isolated DC-DC

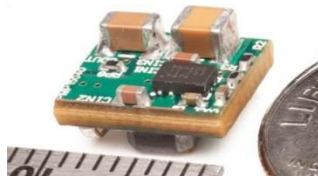


Active EMI Filter

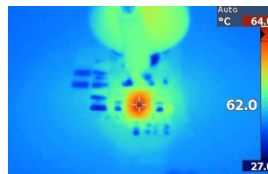


System Benefits

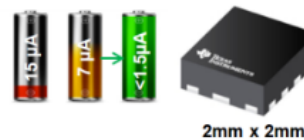
High Power Density



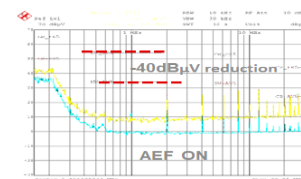
Optimized Thermal Performance



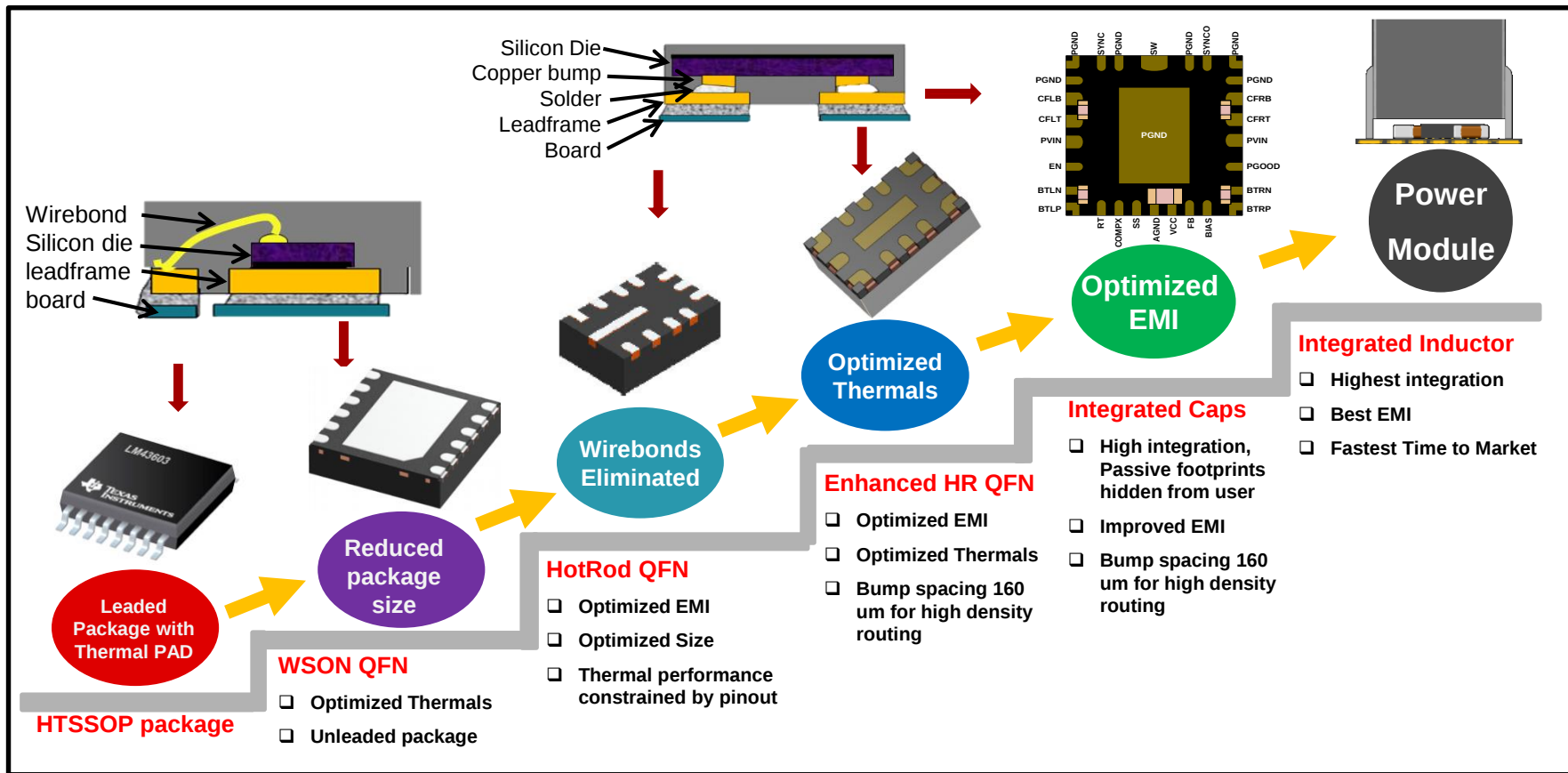
Low Energy Consumption



Lower Emissions



TI 寬壓電源管理IC創新封裝技術



TI 寬壓車用電源管理IC熱門產品

比較產品

尋找其它 降壓式 (降壓) 穩壓器

View: 所有參數 差異

電子郵件 下載 Excel

	LMR51430 - 全新推出 Data sheet: PDF HTML 產品網頁	LMR33630 Data sheet: PDF HTML 產品網頁	LMR38010-Q1 - 全新推出 Data sheet: PDF HTML 產品網頁	LMR38020-Q1 - 全新推出 Data sheet: PDF HTML 產品網頁	LMR33630-Q1 Data sheet: PDF HTML 產品網頁	LM25148-Q1 - 全新推出 Data sheet: PDF HTML 產品網頁
Images						
Description	具 40-µA IQ 的 SIMPLE SWITCHER® 4.5-V 至 36-V、3-A 同步降壓轉換器	具有超低 EMI 的 SIMPLE SWITCHER® 3.6V 至 36V、3A 同步降壓轉換器	車用 SIMPLE SWITCHER® 4.2-V 至 80-V、1-A 同步降壓轉換器	車用 SIMPLE SWITCHER® 電源轉換器 4.2-V 至 80-V、2-A、同步降壓轉換器	3.8V 至 36V、3A 同步降壓轉換器	具有超低 IQ 的車用 42-V 同步降壓 DC/DC 控制器
TI.com inventory	178,043	59,731	770	756	34,943	0
Price(Quantity) (USD)	US\$0.365 1ku	US\$0.450 1ku	US\$0.640 1ku	US\$0.703 1ku	US\$0.930 1ku	US\$1.206 1ku
EMI features	—	Low parasitic Hotrod packaging	Spread Spectrum	Spread Spectrum	Low parasitic Hotrod packaging	Spread Spectrum
Ioutmax (max) (A)	3	3	1	2	3	—
Regulated outputs (#)	1	1	1	1	1	1
Switching frequency (min) (kHz)	500	400	200	200	400	100
Switching frequencymax (max) (kHz)	1100	2100	2200	2200	2100	2200
Iq (typ) (mA)	0.04	0.024	0.04	0.04	0.024	0.0095
Operating temperature range (°C)	-40 to 150	-40 to 125	-40 to 150	-40 to 150	-40 to 125	-40 to 150
TI functional safety category	Functional Safety-Capable	Functional Safety-Capable	—	—	Functional Safety-Capable	Functional Safety-Capable
Rating	Catalog	Catalog	Automotive	Automotive	Automotive	Automotive
Package type	SOT-23-THN	HSOIC, VQFN-HR	HSOIC	HSOIC	VQFN-HR	VQFN
Pin count	6	8, 12	8	8	12	24
Status	✓ 現行	✓ 現行	ⓘ 預覽	ⓘ 預覽	✓ 現行	✓ 現行

TI 中低壓 車用電源管理IC熱門產品

	TPS62A01 × Data sheet: PDF HTML ↗ 產品網頁	TPS62A02 – 全新推出 × Data sheet: PDF HTML ↗ 檢視替代方案 產品網頁	TPS62A01-Q1 – 全新推出 × Data sheet: PDF HTML ↗ 檢視替代方案 產品網頁	TPS628501-Q1 × Data sheet: PDF HTML ↗ 檢視替代方案 產品網頁	TPS628502-Q1 × Data sheet: PDF HTML ↗ 檢視替代方案 產品網頁	TPS628503-Q1 × Data sheet: PDF HTML ↗ 檢視替代方案 產品網頁
Description	採用 SOT-563 封裝的 2.5-V 至 5.5-V 輸入、1-A、高效率降壓轉換器	採用 1.6-mm 乘 1.6-mm SOT563 封裝的 2.5-V 至 5.5-V 輸入、2-A 降壓轉換器	採用 SOT563 封裝的汽車 2.5-V 至 5.5-V 輸入、1-A 輸出降壓轉換器	採用 SOT583 封裝的 2.7V 至 6V、1A 車用降壓轉換器	採用 SOT583 封裝的 2.7V 至 6V、2A 車用降壓轉換器	採用 SOT583 封裝的 2.7-V 至 6-V、3-A 車用降壓轉換器
TI.com inventory	1,473,711	542,437	495	4,692	38,413	178
Ioutmax (max) (A)	1	2	1	1	2	3
Price Quantity (USD)	US\$0.038 1ku	US\$0.053 1ku	US\$0.190 1ku	US\$0.445 1ku	US\$0.490 1ku	US\$0.696 1ku
Switching frequency (min) (kHz)	2400	2400	2400	1800	1800	1800
Switching frequencymax (max) (kHz)	2400	2400	2400	4000	4000	4000
EMI features	—	—	—	Spread Spectrum	Spread Spectrum	Spread Spectrum
Iq (typ) (mA)	0.02	0.023	0.025	0.017	0.017	0.017
Operating temperature range (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125, -40 to 150	-40 to 125
TI functional safety category	—	—	—	Functional Safety-Capable	Functional Safety-Capable	—
Rating	Catalog	Catalog	Automotive	Automotive	Automotive	Automotive
Package type	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3
Pin count	6	6	6	8	8	8

TI CAN / LIN 熱門產品

TI CAN / LIN 產品優勢

- ✓ 有上各車廠的 Approval List.
- ✓ 價格跟規格優勢
- ✓ 可以 Pin to pin 直接替代

CAN / LIN / SBC OEM Approvals

Updated: 1/30/2023

		Europe										US	China								Japan / Korea				
		BMW	Daimler	Renault	Volvo	JLR	VW	Stellantis (FCA/PSA)	Ford	GM	BAIC	BYD	Cherry	Changan	Great Wall Motor	Geely	GAC	FAW	SAIC	Nissan	Toyota, TI FAW *	Mitsubishi	Mazda **	Honda **	Hyundai / Kia
CAN	TCAN1042H/TCAN1051H-Q1 (HG/HGV)	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V		S,V	S,V			
	TCAN1043H-Q1 (HG)	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V		S,V	S,V			
	TCAN1043A(T)-Q1 *	S,V	S,V	S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	V	V	V	V	V	V	V		S,V	S,V	S,V	S,V				
	TCAN1044A(V)-Q1 / TCAN1057A(V)-Q1	S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V	S,V,T	S,V,T	S,V,T				
	TCAN1046A-Q1	S,V	S,V,T	S,V,T		S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T			S,V,T	S,V	S,V,T				
	TCAN1046AV-Q1 / TCAN1048AV-Q1	S,V	S,V,T	S,V,T		S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T			S,V,T	S,V	S,V,T				
	TCAN114x-Q1	S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T			S,V,T		S,V,T				
	TCAN1162-Q1	V	V	V	V	V	V	V		V	V	V	V	V	V	V	V		V		V				
	TCAN1462-Q1						S,V,T	S,V,T	S,V,T		S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T								
TCAN1463-Q1						S,V,T	S,V,T	S,V,T		S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T									
TCAN4551-Q1		V	V	V	V	V	V	V		V	V	V	V	V	V	V		V		V					
LIN	TLIN1021A-Q1 / TLIN2021A-Q1	S,V	S,V,T	V	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	S,V,T	V		V				
	TLIN1022A-Q1 / TLIN2022A-Q1	S,V	S,V	S,V		S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V		S,V				
	TLIN1024A-Q1 / TLIN2024A-Q1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		V				
	TLIN1029A-Q1 / TLIN2029A-Q1	S,V	S,V	S,V	S,V	S,V	S,V	V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V	S,V		S,V				
	TLIN1039-Q1	No T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T		T				
SBC	TCAN1162x-Q1	V		V	V	V	V	V		V	V	V	V	V	V	V			V		V				
	TCAN1164(T)-Q1 * / TCAN1167-Q1	V	V	V		V	V	V		V	V	V	V	V	V	V			V	V	V				
	TCAN4550-Q1	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		V	V		V				
	TLIN1028-Q1	V,H	S,H,V	V,H	V,H	V,H	V,H	S,H,V	S,H,V		S,H,V	S,H,V	S,H,V	S,H,V	S,H,V	S,H,V	S,H,V	S,H,V	V,H		V,H				
	TLIN1431x-Q1							V																	

OEM

- C&S

- Add

- J

- C

- Z

- V

- Fully

Please use needs to

OEM approvals require:

- C&S Conformance testing
- Additional testing
 - J2962-2 : North American OEMs
 - Zwickau : European OEMs
 - VeLIO : Toyota
- Fully released product

Please use this as a guideline only; the supplier needs to confirm approval with the OEM.

S=SOIC / V=VSON / H=HSOIC / T=SOT

See Note ***

Approved

Not Approved

In Work

Not Tested

No Approval List

* The "T" part number is designated for Toyota only

** Mazda and Honda don't keep official lists any longer as Tier 1s can propose any transceiver. They may ask for same test reports as others upon nomination.

5V CAN FD Family 推薦

CAN FD transceivers w/ Standby | Silent mode

Common Features

Highlighted text indicates product differences

- AEC-Q100 Qualified
- Meets ISO 11898-2:2016 and ISO 11898-5:2007
- CAN / CAN FD compatible with data rates up to 5Mbps
- Silent mode with bus wakeup
- **DC Bus-Fault Protection: -58V to +58V**
- **Common mode range: -12V to +12V**
- **Interfaces with 5V or 3.3V MCU I/O ("V" versions)**
- Ideal Passive – High impedance I/Os when unpowered
- TXD dominant state time out
- Industry standard CAN 8-pin package pinouts

8-pin packages



		Differentiated Features			
Feature	Device	推薦	推薦		
		TCAN1044A	TCAN1057A	TCAN1042H	TCAN1051H
		產品網頁	產品網頁	產品網頁	產品網頁
±70V Bus-Fault protection				✓	✓
Maximum data rate		8 Mbps	8 Mbps	5 Mbps (G)	5 Mbps (G)
ESD (HBM / IEC) kV		10 / 15	10 / 15	16 / 15	16 / 15
±30V Common mode input				✓	✓
1.8V V _{IO} support		✓	✓		
Standby support		✓		✓	
Grade 0 option		✓	✓		
SOT-8 Package		✓	✓		
Status		Production	Production	Production	Production
Cross reference		TJA1044 TJA1442 TJA1042	TJA1057 TJA1441 TJA1051	TJA1042 TJA1044 TJA1442	TJA1051 TJA1057 TJA1441
1Ku price on TI.com		\$0.391	\$0.413	\$0.627	\$0.627

5V Wake / INH CAN FD Family

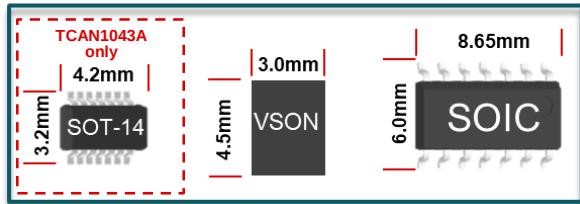
CAN FD Transceivers with special features

Common Features

Highlighted text indicates product differences

- AEC-Q100 Qualified
- Wide Operational voltage (V_{SUP}) : 5 V – 28 V
- Meets the requirements of ISO 11898-2:2016
- CAN FD compatible with data rates up to 5 Mbps
- Remote WAKE via Wake-Up Pattern (WUP)
- Interfaces with 3.3V or 5V MCU I/O
- DC bus-fault protection: ± 58 V
- Common mode range: ± 12 V
- TXD Dominant state Time Out (TXD DTO)
- Multiple package options provide manufacturing flexibility

14-pin packages



Differentiated Features

Feature Device	推薦 TCAN1043A 產品網頁	推薦 TCAN1162 產品網頁	TCAN1043H 產品網頁
Wake / Inhibit	✓	✓	✓
ESD (HBM / IEC) kV	10 / 8	10 / 8	15 / 8
± 70 V Bus Fault protection			✓ (H)
± 30 V Common mode input			✓
Data rate	8Mbps	8Mbps	5Mbps
V_{IO} pin	✓ +1.8V Support	✓ +1.8V Support	✓
Self-supplied power		✓	
PKG / Pins	SOIC / 14 VSON / 14 SOT / 14	VSON / 14	SOIC / 14 VSON / 14
Status	Production	Production	Production
Cross reference	TJA1043 TJA1443	UJA1162	TJA1043 TJA1443
1Ku price on TI.com	\$0.645	\$1.15	\$0.93

TLIN102xA-Q1 LIN Transceiver Family

AEC-Q100 qualified with robust bus-fault and ESD protection

Common Features

- AEC-Q100 Qualified
- LIN physical layer supports specification rev 2.2a and SAE J2602
- Bus-Fault Protection ± 45 V (or ± 60 V on TLIN202xA-Q1)
- Extended supply voltage operation 4 V – 36 V
- Sleep mode with wake-up from:
 - LIN bus
 - Local wake-up through enable pin
- Under voltage protection on V_{SUP}
- Thermal shutdown protection
- Wettable flanks on all VSON/QFN packages
- Temperature range: -40°C to $+125^{\circ}\text{C}$

Feature Comparison

Feature Device	TLIN1029A	TLIN1021A	TLIN1022A	TLIN1024A	TLIN1027
	產品網頁	產品網頁	產品網頁	產品網頁	產品網頁
# of LIN transceivers	1	1	2	4	1
Dominant State Timeout	✓	✓	✓	✓	
K-LINE Support					✓
Wake Input Pin		✓			
Inhibit Output Pin		✓			
± 60 V Bus Fault Support	✓ TLIN2029A	✓ TLIN2021A	✓ TLIN2022A	✓ TLIN2024A	✓ TLIN2027
SOT-8 Package	✓ TLIN1039	✓ TLIN1021A			
Cross Reference	TJA1029	TJA1021	TJA1022	TJA1024	TJA1027
1Ku price on TI.com	\$0.39	\$0.476	\$0.74	\$1.151	\$0.389

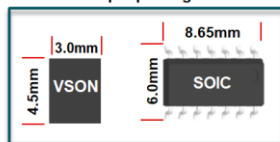
8-pin packages



TLIN1021A-Q1
TLIN1039-Q1

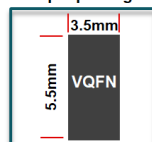
TLINx021A-Q1
TLINx029A-Q1

14-pin packages



TLINx022A-Q1

24-pin package



TLINx024A-Q1

車用反向保護IC

高壓側開關

車用反向保護IC跟高壓側開關使用場合

電池管理系統

TPS4H160-Q1

4-ch, 160mΩ High Side Switch
LM74700-Q1
65V, 1uA Ioff Ideal Diode Ctrl.

數位駕駛室處理單元

TPS2H160-Q1

2-ch, 160mΩ High Side Switch
LM74800-Q1
65V, 3uA Ioff B2B ideal Diode Ctrl.
TPS22919-Q1
1-ch, 1.5A, 90mΩ load switch

緊急呼叫 (eCall)

TPS1H000-Q1

1-ch, 160mΩ High Side Switch
TPS25940-Q1
18V, 5A, 42mΩ eFuse
TPS22919-Q1
1-ch, 1.5A, 90mΩ load switch

座椅加熱

TPS1HB08/16-Q1

1-ch, 8mΩ/16mΩ High Side Switch

後座娛樂系統

TPS1HB35-Q1

1-ch, 35mΩ High Side Switch
LM74700-Q1
65V, 1uA Ioff Ideal Diode Ctrl.
TPS22968-Q1
2-ch, 4A, 25mΩ load switch

頭燈

TPS1HB08-Q1

2-ch, 8mΩ High Side Switch
LM74800-Q1
65V, 3uA Ioff B2B ideal Diode Ctrl.

尾燈

TPS1H000-Q1

1-ch, 1Ω High Side Switch
LM5050-Q1
75V Ideal Diode Ctrl.

引擎 ECU

TPS2HB16-Q1

2-ch, 16mΩ High Side Switch
LM5060-Q1
65V, 15uA Ioff Ideal Diode Ctrl.

變速箱

TPS1HA08-Q1

1-ch, 8mΩ High Side Switch

盲點偵測

TPS2H000-Q1

2-ch, 1Ω High Side Switch

車門模組

TPS4H000-Q1

4-ch, 1Ω High Side Switch
LM74700-Q1
65V, 1uA Ioff Ideal Diode Ctrl.

環景系統

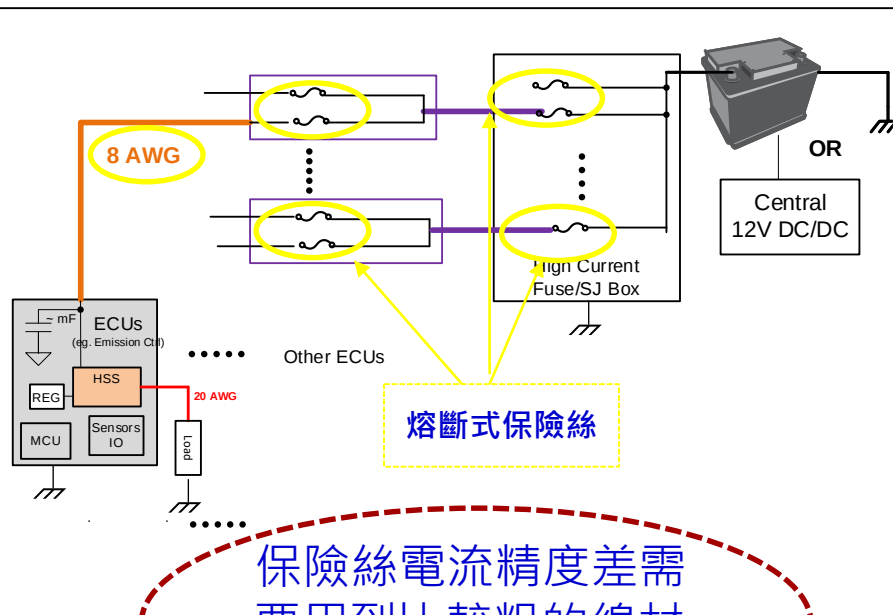
TPS4H160-Q1

4-ch, 160mΩ High Side Switch
LM74800-Q1
65V, 3uA Ioff B2B ideal Diode Ctrl.
TPS22919-Q1
1-ch, 1.5A, 90mΩ load switch

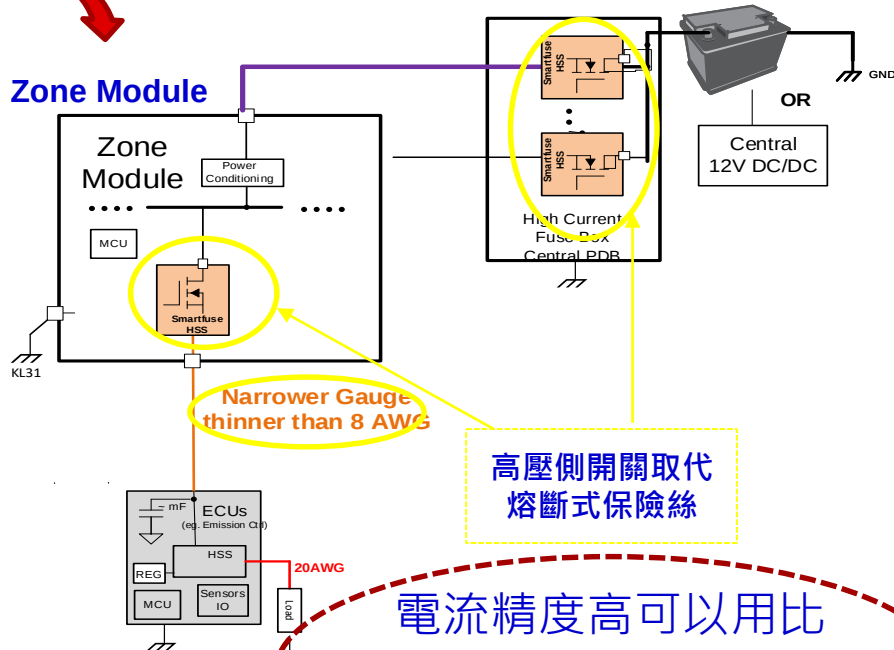
高壓側開關

高壓側開關 - 取代熔斷式保險絲

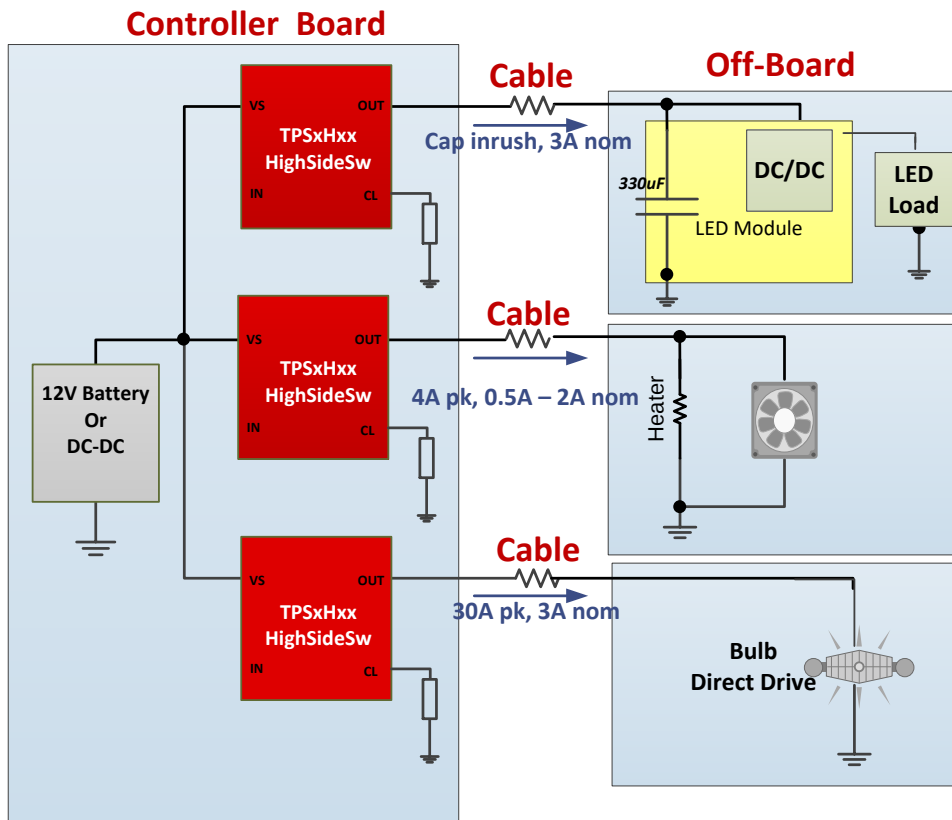
Junction Box / 電源分配盒



Zone Module



Capacitive Load Drive | Current Limit Advantages



TI High Side Switch with Adjustable Current Limiting

- Limits inrush current and prevent input voltage supply droop
- Protect against short-to-ground faults with lower peak currents
- Simplify power design and reduce system cost with lower rated components, cables and connectors

TI 高壓側開關的優點

Adjustable Current Limiting Mode

- ✓ **Higher reliability** – protect power supply during short circuit or clamp inrush current charging a capacitive load as in an off-board ECU
- ✓ **Lower system cost** – reduce cost/weight in the wiring harness and electrical connectors

High Accuracy Current Sense

- ✓ **Accurate, real-time load diagnostics** even in light loads (such as LEDs)
- ✓ **Reduce system cost** - eliminates the need for current sense calibration

Robust Operation

- ✓ AEC Q100-012 Grade A, 1M times short to GND test (TPS1H100, TPSxH000)
- ✓ Designed for automotive environments - ISO7637-2 & ISO16750-2
- ✓ IEC-61004-2 ESD protection to 8 kV/ 15 kV

TI 高壓側開關熱門產品

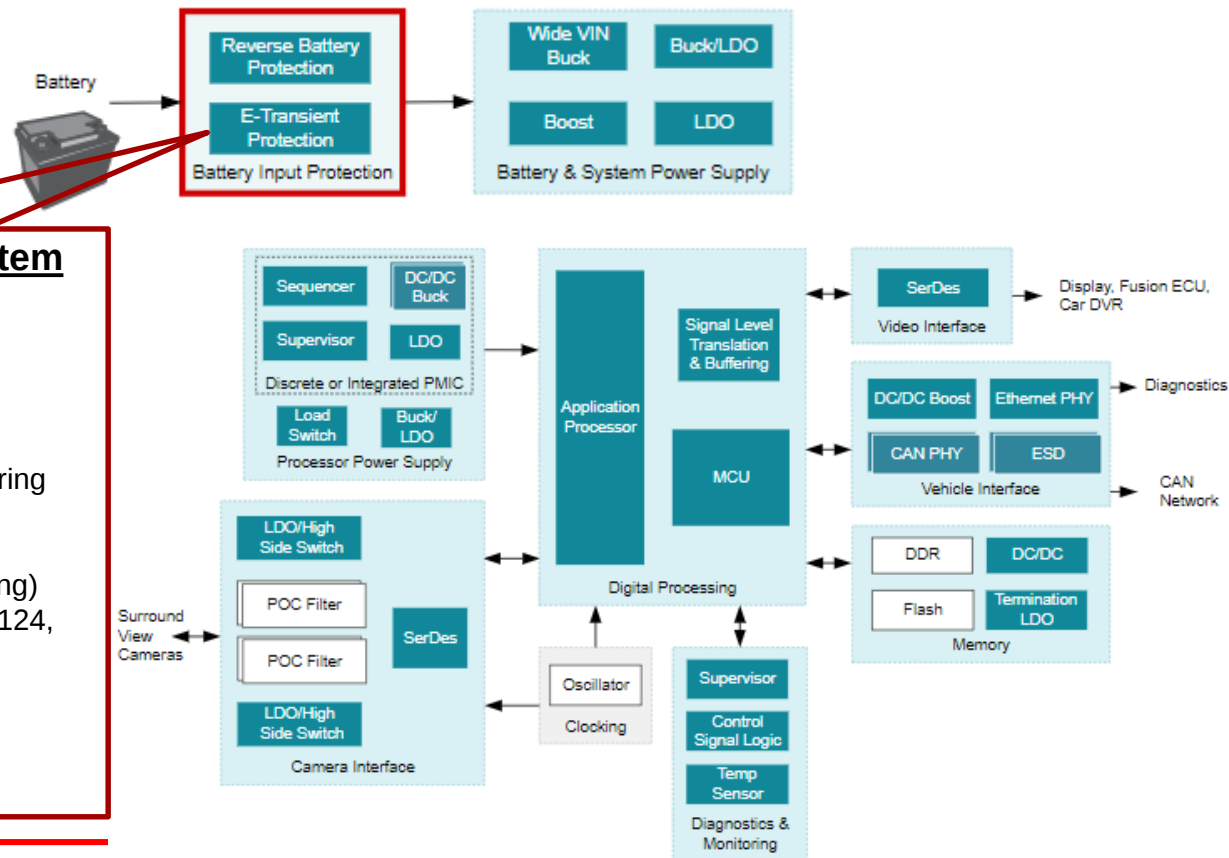
	TPS4H160-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁	TPS1H000-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁	TPS1HB08-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁	TPS1HB35-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁	TPS2H000-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁	TPS4H000-Q1 Data sheet: PDF HTML 檢視替代方案 產品網頁
Subcategory	高壓側開關	高壓側開關	高壓側開關	高壓側開關	高壓側開關	高壓側開關
Vin (max) (V)	40	40	18	18	40	40
Number of channels	4	1	1	1	2	4
Ron (typ) (mΩ)	160	1000	8	35	1000	1000
I _{max} (A)	2.5	0.9	10	5	0.75	0.75
TI.com inventory	2,534	1,260	2,405	3,478	3,120	2,616
Price/Quantity (USD)	US\$1.028 1ku	US\$0.418 1ku	US\$0.886 1ku	US\$0.616 1ku	US\$0.504 1ku	US\$0.895 1ku
FET	Current sense/monitor, Digital output, Thermal shutdown, Under voltage lock out	Internal	Internal	Internal	Internal	Internal
Package type	HTSSOP	HVSSOP	HTSSOP	HTSSOP	HTSSOP	HTSSOP
Pin count	28	8	16	16	16	20
Operating temperature range (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125
TI functional safety category	Functional Safety-Capable	—	Functional Safety-Capable	—	Functional Safety-Capable	—
Rating	Automotive	Automotive	Automotive	Automotive	Automotive	Automotive

反向保護IC

Example ADAS Surround View Camera ECU

Reverse Battery Protection subsystem requirements

- Reverse Polarity Protection (Mis-wiring)
- Reverse Current Blocking:
 - No back-feed between ECUs
 - Output capacitor voltage hold-up during input interruptions, micro shorts
- Low forward voltage drop (cold crank testing)
- ISO7637 and OEM specific standards (LV124, etc) compliance
- Over voltage protection
- Inrush current limiting
- Overcurrent Protection
- Oring, Muxing in dual battery systems



TI 反向保護IC整合反向TVS功能新技術

– VDS clamping

現行做法

TI 新技術TVS-less作法

Parameter	P-channel MOSFET	LM74501-Q1 + N-channel MOSFET
Typical Application Diagram		
Solution Size (Load current > 6 A)	PFET (Q1) +TVS (D1) + Zener (D2) + Resistor (R1) 12.3 mm × 8.5 mm (104.5 mm²)	LM74501 + NFET (Q1) + C_{CVCAP} + C_T 6.3 mm × 8 mm (50.4 mm²) TVS Less solution with 50% reduction in size
Low V _{IN} / Cold-Crank Performance		Better cold crank performance compared to PFET based solution. External N-FET remains fully enhanced even if input voltage falls to 3.2 V.

✓ 不需要外掛 TVS

✓ 只需外掛便宜的 NFET

✓ LM74501-Q1 \$0.577 (TI.com 1Ku price)

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	LM74501-Q1 Data sheet: PDF HTML TVS-less 產品網頁	LM74502-Q1 – 全新推出 Data sheet: PDF HTML 檢視替代方案 Inrush current control 產品網頁	LM74721-Q1 – 全新推出 Data sheet: PDF HTML TVS-less 產品網頁
Images			
TI.com inventory	14,589	15	53,940
Vin (max) (V)	65	65	65
Number of channels	1	1	1
Features	Automotive load dump compatibility, Enable, Integrated VDS clamp, Reverse polarity protection	Enable, Inrush current control, Overvoltage protection, Reverse polarity protection	Automotive load dump compatibility, Enable, Integrated VDS clamp, Linear control, Reverse current blocking, Reverse polarity protection
Iq (typ) (mA)	0.08	0.06	0.032
TI functional safety category	Functional Safety-Capable	—	—
FET	External single FET	External single FET	External back-to-back FET, External single FET
Operating temperature range (°C)	-40 to 125	-40 to 125	-40 to 125
Price Quantity (USD)	US\$0.577 1ku	US\$0.700 1ku	US\$0.938 1ku
Package type	SOT-23-THN	SOT-23-THN	WSON
Pin count	8	8	12
Package size (L x W) (mm)	2.9 x 2.8	2.9 x 2.8	3 x 3
Rating	Automotive	Automotive	Automotive

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3. 選擇EMI feature

2. 選擇電流範圍

Product number	Images	TI.com inventory	Price/Quantity (USD)	Vinmax (max) (V)	Ioutmax (max) (A)	Regulated outputs (#)	Switching frequencymax (max) (kHz)	EMI features	Features	Iq (typ) (mA)	Operating temperature range (°C)	Rating	Package type	Pin count
TPS62A01-Q1 - 全新推出		495	US\$0.190 1ku	2400	2	1	2400	Integrated capacitors, Low parasitic Hotrod packaging, Spread Spectrum, (Blanks)	Output discharge, Over Current Start-Up, Soft Start Fixed, Fixed	0.025	-40 to 125	Automotive	SOT-5X3	6
LMR38010-Q1 - 全新推出		805	US\$0.640 1ku	2200	2	1	2200	Integrated capacitors, Low parasitic Hotrod packaging, Spread Spectrum, (Blanks)	synchronization, Light Load in, Power good, Pre-Bias Start-Up, n, Synchronous Rectification, UVLO	0.04	-40 to 150	Automotive	HSOIC	8
TPS62992-Q1 - 全新推出		20,486	US\$0.730 1ku	2500	3	1	2500	Enable, Forced PWM, Frequency synchronization, Light Load Efficiency, Over Current Protection, Power good, Pre-Bias Start-Up, Soft Start Fixed, Spread Spectrum, Synchronous Rectification, UVLO Fixed	Efficiency, Output discharge, e, Synchronous Rectification, ible flanks package	0.004	-40 to 125	Automotive	VQFN-HR	9
LMR38020-Q1 - 全新推出		796	US\$0.703 1ku	2200	2	1	2200	Enable, Forced PWM, Frequency synchronization, Light Load Efficiency, Over Current Protection, Power good, Pre-Bias Start-Up, Soft Start Fixed, Spread Spectrum, Synchronous Rectification, UVLO Fixed		0.04	-40 to 150	Automotive	HSOIC	8
TPS62993-Q1 - 全新推出		32,486	US\$0.730 1ku	2500	3	1	2500	Enable, Forced PWM, Light Load Efficiency, Output discharge, Power good, Soft Start Adjustable, Synchronous Rectification, Tracking, UVLO adjustable, Wettable flanks package		0.004	-40 to 125	Automotive	VQFN-HR	9
TPS62903-Q1 - 全新推出		270	US\$0.740 1ku	2500	3	1	2500	Enable, Forced PWM, Light Load Efficiency, Output discharge, Power good, Soft Start Adjustable, Synchronous Rectification, Tracking, UVLO adjustable, Wettable flanks package		0.004	-40 to 165	Automotive	VQFN-HR	9
TPS62441-Q1 - 全新推出		0	US\$0.920 1ku	4000	2	2	4000	Low parasitic Hotrod packaging, Spread Spectrum	Enable, Output discharge, Power good, Spread Spectrum, Wettable flanks package	0.022	-40 to 125	Automotive	VQFN-HR	14

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Product number	Images	TI.com inventory	Price Qua... (USD)	Vin (max) (V)	Ioutmax (max) (A)	Switching frequency... (max) (kHz)	EMI features	Features	Iq (typ) (mA)
☒ TPS62A01-Q1 - 全新推出 Data sheet: PDF HTML 檢視替代方案		495	US\$0.190 1ku	5.5	1	2400	—	Enable, Light Load Efficiency, Output discharge, Over Current Protection, Power good, Pre-Bias Start-Up, Soft Start Fixed, Synchronous Rectification, UVLO Fixed	0.025
☒ LMR38010-Q1 - 全新推出 Data sheet: PDF HTML		740	US\$0.640 1ku	80	1	2200	Spread Spectrum	Enable, Forced PWM, Frequency synchronization, Light Load Efficiency, Over Current Protection, Power good, Pre-Bias Start-Up, Soft Start Fixed, Spread Spectrum, Synchronous Rectification, UVLO Fixed	0.04
☐ TPS62992-Q1 - 全新推出 Data sheet: PDF HTML		20,275	US\$0.680 1ku	10	2	2500	—	Enable, Forced PWM, Light Load Efficiency, Output discharge, Power good, Soft Start Adjustable,	0.004

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TPS62A01-Q1 ×

LMR38010-Q1 ×

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	TPS62A01 × Data sheet: PDF HTML	TPS62A02 – 全新推出 × Data sheet: PDF HTML ☑ 檢視替代方案	TPS62A01-Q1 – 全新推出 × Data sheet: PDF HTML ☑ 檢視替代方案	TPS628501-Q1 × Data sheet: PDF HTML ☑ 檢視替代方案	TPS628502-Q1 × Data sheet: PDF HTML ☑ 檢視替代方案	TPS628503-Q1 × Data sheet: PDF HTML ☑ 檢視替代方案
Description	採用 SOT-563 封裝的 2.5-V 至 5.5-V 輸入、1-A、高效率降壓轉換器	採用 1.6-mm 乘 1.6-mm SOT563 封裝的 2.5-V 至 5.5-V 輸入、2-A 降壓轉換器	採用 SOT563 封裝的汽車 2.5-V 至 5.5-V 輸入、1-A 輸出降壓轉換器	採用 SOT583 封裝的 2.7V 至 6V、1A 車用降壓轉換器	採用 SOT583 封裝的 2.7V 至 6V、2A 車用降壓轉換器	採用 SOT583 封裝的 2.7-V 至 6-V、3-A 車用降壓轉換器
TI.com inventory	1,473,711	542,437	495	4,692	38,413	178
Ioutmax (max) (A)	1	2	1	1	2	3
Price Quantity (USD)	US\$0.038 1ku	US\$0.053 1ku	US\$0.190 1ku	US\$0.445 1ku	US\$0.490 1ku	US\$0.696 1ku
Switching frequency (min) (kHz)	2400	2400	2400	1800	1800	1800
Switching frequencymax (max) (kHz)	2400	2400	2400	4000	4000	4000
EMI features	—	—	—	Spread Spectrum	Spread Spectrum	Spread Spectrum
Iq (typ) (mA)	0.02	0.023	0.025	0.017	0.017	0.017
Operating temperature range (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125, -40 to 150	-40 to 125
TI functional safety category	—	—	—	Functional Safety-Capable	Functional Safety-Capable	—
Rating	Catalog	Catalog	Automotive	Automotive	Automotive	Automotive
Package type	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3	SOT-5X3
Pin count	6	6	6	8	8	8

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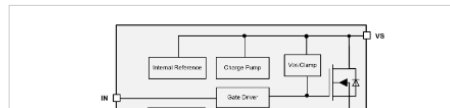
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Number of channels

1



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TPS1H000-Q1: Looking for the footprint definition for HVSSOP (DGN) - 8

Part Number: TPS1H000-Q1 Hi, the footprint for the TPS1H000-Q1 (HVSSOP (DGN) - 8) is missing from the datasheet and the link from the product page only shows a rendering of the package. Could you g...

TPS1H000-Q1: Why PIN 7 and PIN8 burned down during PIN7 short to GND

Part Number: TPS1H000-Q1 [View:/cfs-file/___key/communityserver-discussions-components-files/196/TEST-SETUP.pdf:163:87] Hello, In our application, TPS1H000-Q1 is used for High side swith, detail b...

TPS1H000-Q1: TPS1H000-Q1 Open-Load Detection Pull-up

Part Number: TPS1H000-Q1 Hi, Page 16 of TPS1H000-Q1 datasheet shows the method for Open-Load Detection when Output Off. If the pull-up resistor is placed, t here will be a current that will...

TPS1H000-Q1: Reverse polarity protection

Part Number: TPS1H000-Q1 Hello everyone I use TPS1H000-Q1 as a high switch during battery charge, to limit the current down to 500mA maximum. It works fine, but there are some conditions that dama...

TPS1H000-Q1: How the TPS1H000 to detect the protections of "Loss-of-Power-Supply" and "Loss-of-GND" ?

Part Number: TPS1H000-Q1 Two questions as following : 1. How the TPS1H000 to detect protections of Loss-of-Power-Supply and Loss-of-GND ? (detect VDS 2. If pin8 Vs is 12Vdc + sinusoidal su...

TPS1H000-Q1: Current limit accuracy and capacitive load behaviour

Part Number: TPS1H000-Q1 Good morning, I am using TPS1H000 to limit my output current to 200mA at 24V. I am not able to understand the expected accuracy when I set CL = 100µF and 1000µm. By my...

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TPS1H000-Q1: What is the internal connection between GND and OUT?

1 month ago
Power management
Power management forum



Iris Shen

✓ Resolved

Part Number: **TPS1H000-Q1** Hi team, My customer use **TPS1H000-Q1** and meet some problem when did one test. Please refer to the picture for test set up. They said after disconnected the OUT pin to load, if they connect the 12V GND to OUT pin, the switch would...

TPS1H000-Q1: Why PIN 7 and PIN8 burned down during PIN7 short to GND

1 month ago
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Jingjing Zhao

✓ Resolved

Part Number: **TPS1H000-Q1** Other Parts Discussed in Thread: **TPS1H000EVM**, **TEST SETUP.pdf** Hello, In our application, **TPS1H000-Q1** is used for High side switch, detail block diagram in attached page 1. PIN7 is PWM output and will be connect to vehicle side other...

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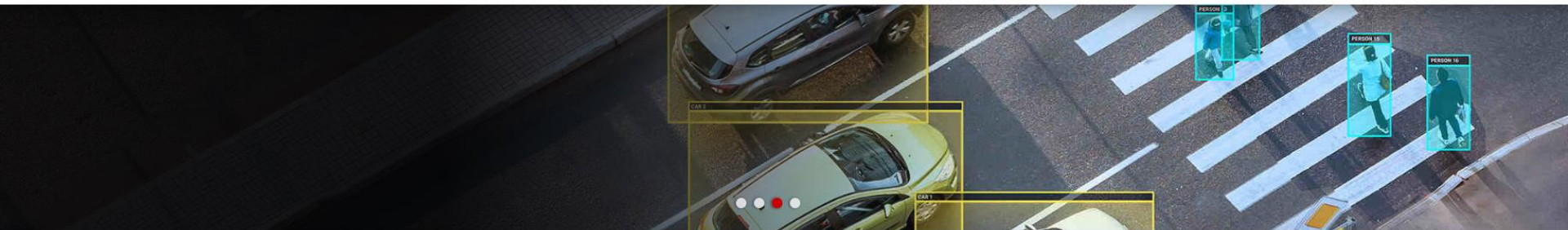
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TCAN1044A-Q1: TCAN1044-Q1 VS TCAN1044V-Q1

 Martin Kohout

Part Number: [TCAN1044A-Q1](#)
Other Parts Discussed in Thread: [TCAN1044V-Q1](#), [TCAN1044-Q1](#), [TCAN1462V-Q1](#)

> The V devices have an I/O voltage level translator.

If the description above is correct, which makes sense, then there is a typo in the TCAN1044-Q1,....

✓ Answered

3 months ago
Interface
Interface forum

TCAN1044A-Q1: TCAN1044A-Q1 VS TCAN1044AV-Q1 VS TCAN1044-Q1 VS TCAN1044V-Q1

 Red Yen

Part Number: [TCAN1044A-Q1](#)
Other Parts Discussed in Thread: [TCAN1044V-Q1](#), [TCAN1044-Q1](#), [TCAN1044AV-Q1](#)

Hi Support team

What's different between TCAN1044A-Q1 VS TCAN1044AV-Q1 VS TCAN1044-Q1 VS TCAN1044V-Q1 ?

6 months ago
Interface
Interface forum

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* Required fields

This is a

- ☒ Question
☐ Discussion (NOTE: For BU use only, TI Field should not use this.)

* Part number

For faster support, start typing a part number or a part from the same product family.

☐ I don't have a part number

* Select a forum

* E2E thread title

* Description

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Hi

CAN TCAN1044A pin to pin drop in replace NXP TJA1042 ?

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2. 提問

3. 問題詳細描述

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* Required fields

This is a

- ☒ Question
- ☐ Discussion (NOTE: For BU use only, TI Field should not use this.)

* Part number

TCAN1044A-Q1

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*Select a forum

Interface forum

*E2E thread title

TCAN1044A-Q1:

If the part number is entered above, do not repeat. It will automatically be added as a prefix to your title.

*Description

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Hi

CAN TCAN1044A pin to pin drop in replace NXP TJA1042 ?

Add images and other files by dragging them into the editor.

☒ Notify me when someone replies to this post☐ BCC others of this post☐ FAQ

Make this thread sticky (appear at top of forum) - NOTE: For BU use only, TI Field should not use this.

(Not prioritized) ▾

Post

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E2E網路論壇-

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TPS1H000-Q1 inrush current



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- ☐ Answer suggested ⓘ

Showing 13,267 results

View by: Thread ☒ Post

Sort by Relevance



TPS1H000-Q1: inrush current for capacitive load



Shinji Tsuji

✓ Resolved

Part Number: TPS1H000-Q1 Hi team, Could you advise the behavior of TPS1H000-Q1 at power up into bulk capacitor? I plan to use it for external power supply switch and there are input capacitor connected. It is described in the datasheet 7.3.1 Current ...

7 months ago
Power management
Power management forum

輸入搜尋關鍵字

RE: LM74900-Q1: Load dump Inrush current setting and evidence



Praveen GD

Hi Chul, The inrush current can be as high as peak load current. Without inrush current limit, while turning ON/ starting up into a capacitive load, there would be a drop in input voltage

5 days ago
Power management
Power management forum

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TCAN1044A-Q1: TCAN1044-Q1 VS TCAN1044V-Q1

3 months ago
[Interface](#)
[Interface forum](#)
[Martin Kohout](#)
[Resolved](#)

Part Number: TCAN1044A-Q1 Other Parts Discussed in Thread: TCAN1044V-Q1 , TCAN1044-Q1 , TCAN1462V-Q1 > The V devices have an I/O voltage level translator. If the description above is correct, which makes sense, then there is a typo in the TCAN1044-Q1,...

TCAN1044A-Q1: TCAN1044A-Q1 VS TCAN1044AV-Q1 VS TCAN1044-Q1 VS TCAN1044V-Q1

6 months ago
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Part Number: TCAN1044A-Q1 Other Parts Discussed in Thread: TCAN1044V-Q1 , TCAN1044-Q1 , TCAN1044AV-Q1 Hi Support team What's different between TCAN1044A-Q1 VS TCAN1044AV-Q1 VS TCAN1044-Q1 VS TCAN1044V-Q1 ? Red Yen

TCAN1044A-Q1: TCAN1044

5 months ago
[Interface](#)

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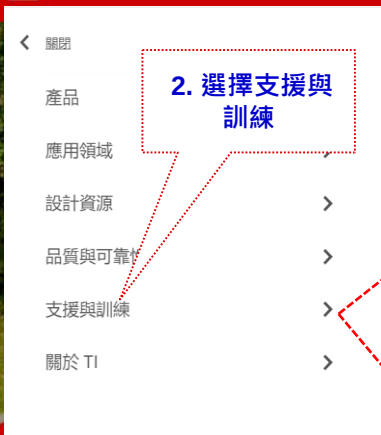
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登入MyTi

PY

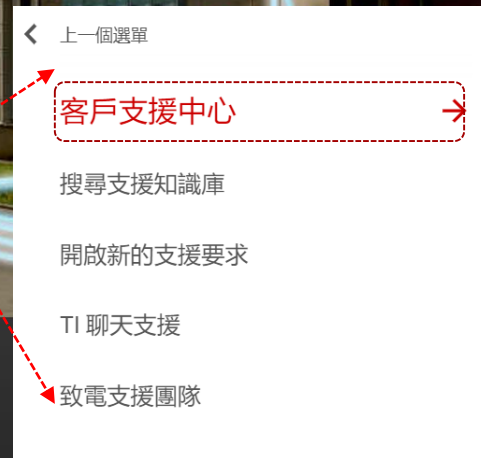
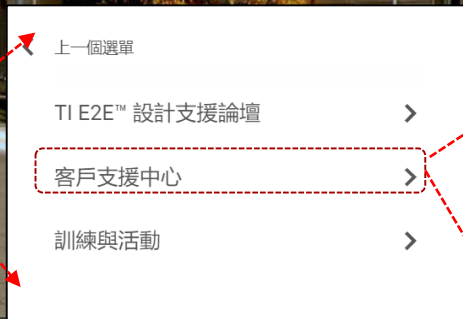
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Sample Program Access Request

描述

Provide case details or comments about your issue.

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- Agent: Thank you for contacting TI Customer Support. I will assist you today. 感谢您联络德州仪器客户支持中心，很高兴为您服务
- User: 可以幫我看一下這個樣品寄出了嗎？order # T04135261
- Agent: 系统无此订单
- User: 请稍等，这边查询一下
- Agent: 这边需要与IT核实一下订单情况，有反馈会邮件通知您
- User: 好的, thank you !

The input field at the bottom contains the placeholder text 'type your message'. The '送出' (Send) button is located to the right of the input field.

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