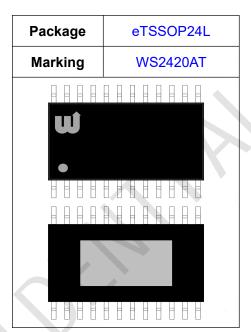


Application

- ◆ Fail operational power supply targeting high current applications
- ◆ Connection/isolation switch between power supplies (e.g. for hybrids and electric vehicles)
- ♦ Developed to support dependable power supply and distribution

Basic Features

- ◆ ISO 26262-ready for supporting the integrator in evaluation of hardware element according to ISO 26262:2018 Clause 8-13
- ◆ Two channels device with two high-side gate driver outputs
- lack 3 Ω pull-down, 50 Ω pull-up for fast switch on/off
- Support back-to-back MOSFET topologies (common drain and common source)
- Two bidirectional high-side analog current sense interfaces with externally adjustable gain
- ◆ Adjustable overcurrent/short-circuit protection
- ◆ Versatile comparator to implement: adjustable I-t wire protection, overvoltage/undervoltage or overtemperature protection

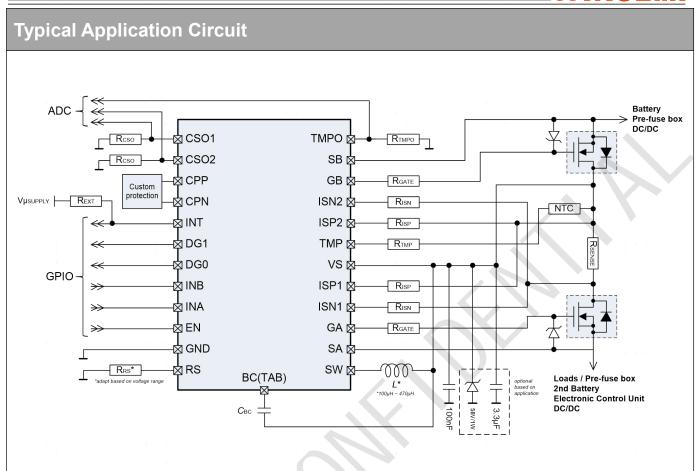


Product Summary

Parameter	Symbol	Value
Max. transient supply voltage	Vs	58V
Voltage reference range for normal operation	V _{S(NOR)}	8-36V
Voltage reference extended range	V _{S(EXT)}	3-58V
CSA adjustable gain	G	10~200
Gate turn on short circuit pulsed current per gate	I _{G(ON)}	175mA
Gate turn-off short circuit pulsed current per gate	I _{G(OFF)}	1400mA
Turn on delay	t _{D(ON)}	4us @ C _G =100nF
Turn off delay	t _{D(OFF)}	4us @ C _G =100nF
GND current in SLEEP mode	IGND+RS(SLEEP)	1~15uA
BC current in IDLE mode	I _{BC(IDLE)}	5~50uA

WINSEMI MICROELECTRONICS WINSEMI W





Ordering Information		
Package	Top Mark	Part No.
eTSSOP24L, Pb-free	WS2420AT XXYMXX	WS2420AT

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