

WSTD723GW

Smart High-Side Power Switch Dual Channel, 70mΩ, SOP-14L, AEC-Q100 qualified

Application

- ♦ Suitable for resistive, inductive and capacitive loads
- ◆ Replaces electromechanical relays, fuses and discrete circuits
- ♦ Most suitable for loads with high inrush current, such as lamps
- ♦ Suitable for 12 V and 24 V trucks + trailer and transportation systems

Basic Features

- Dual channel device
- ◆ Very low stand-by current
- ♦ 3.3 V and 5 V compatible logic inputs
- Optimized electromagnetic compatibility
- Fast switching device
- Wide operating voltage range

Diagnostic Functions

- ♦ Diagnostic feedback with open drain output and integrated pull up resistors
- Off-state open load detection
- ♦ OUT short to VS detection
- ◆ Feedback of Thermal shutdown in ON-state
- ♦ Diagnostic feedback of both channels works properly in case of inverse current

Protection Functions

- ♦ Undervoltage shutdown
- ♦ Overvoltage clamp
- ◆ Load current limitation
- Self limiting of fast thermal transients
- ♦ Thermal shutdown
- Protection against loss of ground and loss of Vbb
- Reverse battery protection with external resistor
- ♦ Electrostatic discharge protection

Product Summary

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Parameter	Symbol	Value
Max. transient supply voltage	Vs	60V
Operating voltage range	V _{NOM}	7-58V
On-state resistance (per channel, $T_j = 25^{\circ}C$)	R _{ON}	70mΩ
On-state resistance (two channels parallel, $T_j = 25^{\circ}C$)		35mΩ
Nominal load current (one channel active, $T_j = 25^{\circ}C$)	I _{L(NOM)1}	4A
Nominal load current (All channels active, $T_j = 25 ^{\circ}\mathrm{C}$)	I _{L(NOM)2}	6A
Current limitation (per channel)	I _{LIMH}	12A
Supply current in sleep	I _{SLEEP}	6uA





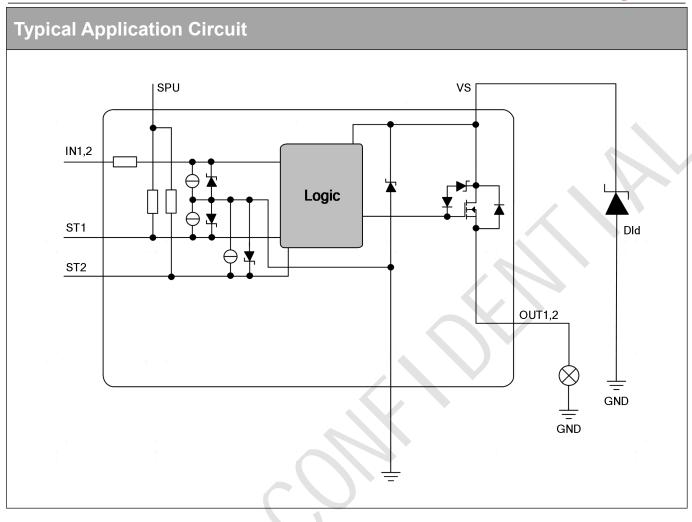






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