

WSTD5070AN-L**Smart High-Side Power Switch Dual Channel, 70mΩ, DFN9×6-14L , 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 24 V and 48 V trucks + trailer and transportation systems

Features

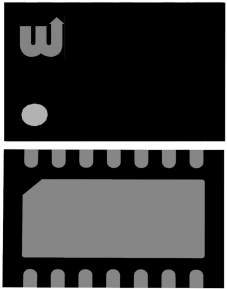
- ◆ PRO-SIL™ ISO 26262-ready for supporting the integrator in evaluation of hardware element according to ISO 26262:2018 Clause 8-13
- ◆ Dual channel device
- ◆ Very low stand-by current
- ◆ 3.3 V and 5 V compatible logic inputs
- ◆ Optimized electromagnetic compatibility
- ◆ Very low electromagnetic susceptibility
- ◆ User adjustable current limitation

Diagnostic Functions

- ◆ Off-state open load detection
- ◆ OUT short to VS detection
- ◆ Overload and short to ground latch-off
- ◆ Thermal shutdown latch-off

Protection Functions

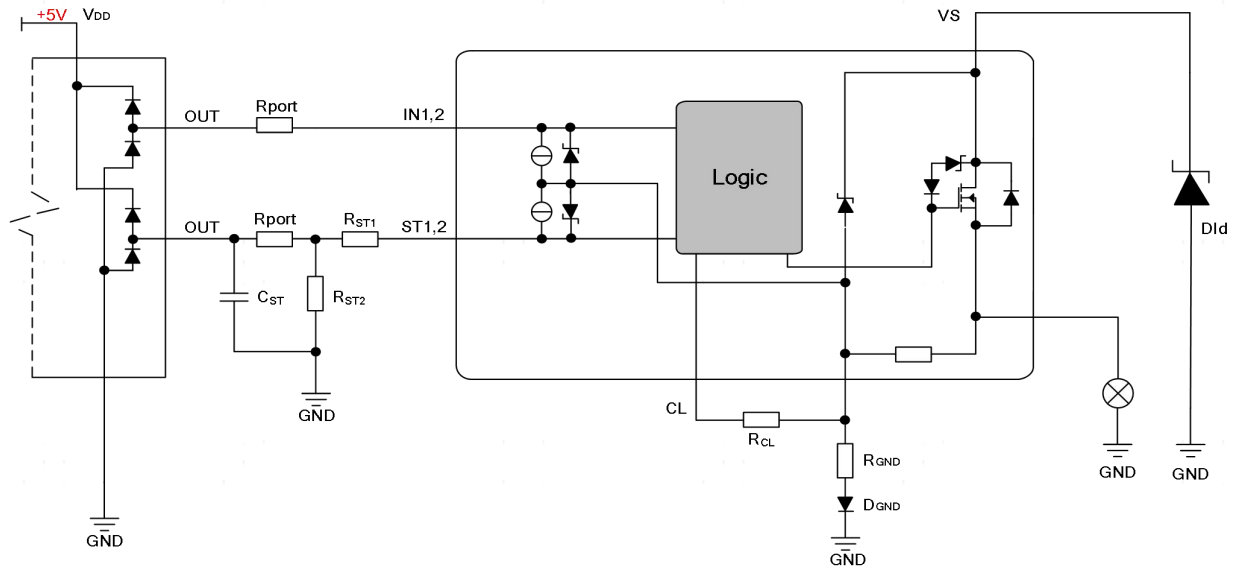
- ◆ Undervoltage shutdown
- ◆ Overvoltage clamp
- ◆ Load current limitation
- ◆ Self limiting of fast thermal transients
- ◆ Protection against loss of ground and loss of VS
- ◆ Thermal shutdown
- ◆ Electrostatic discharge protection

Package	DFN9×6-14L
Marking	WSTD5070AN-L
	

**Product Summary**

Parameter	Symbol	Value
Max. transient supply voltage($T_j \geq 25^\circ\text{C}$)	V_s	70V
Operating voltage range	V_{NOM}	5-58V
On-state resistance (per channel, $T_j = 25^\circ\text{C}$)	R_{ON}	70mΩ
Nominal load current (one channel active, $T_j = 25^\circ\text{C}$)	$I_{\text{L(NOM)1}}$	4A
Nominal load current (All channels active, $T_j = 25^\circ\text{C}$)	$I_{\text{L(NOM)2}}$	3A
Current limitation	I_{LIMH}	Adjustable
Supply current in sleep	I_{SLEEP}	5uA

Typical Application Circuit



Note1: For D_{GND}, the diode with lower V_F is advisable.