

### WSD7030AD

# Smart High-Side Power Switch Dual Channel, 42mΩ, DFN5×6-16L, AEC-Q100 qualified

# **Application**

- Suitable for resistive, inductive and capacitive loads
- Specially intended for automotive signal lamps
- Replaces electromechanical relays, fuses and discrete circuits

#### **Basic Features**

- Dual channel device
- Standby current <1.0µA
- 3.3 V and 5 V compatible logic inputs
- RoHS compliant and lead free
- AEC-Q100 qualified

# **Product Summary**

Package	DFN5×6-16L		
Marking	WSD7030AD		
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Parameter	Symbol	Value
Max. DC supply voltage	Vcc	35V
Operating voltage range	V <sub>NOM</sub>	4.5-28V
On-state resistance (per channel, Typ.)	Ron	42mohm
Nominal load current (one channel active)	I <sub>L(NOM)1</sub>	6A
Nominal load current (All channels active)	I <sub>L(NOM)2</sub>	4A
Typical current sense ratio (I <sub>OUT</sub> =4A)	К	1550
Current limitation (typ.)	Ішмн	15A
Supply current in standby mode	I <sub>STBY</sub>	<1.0µA

# **Diagnostic Functions**

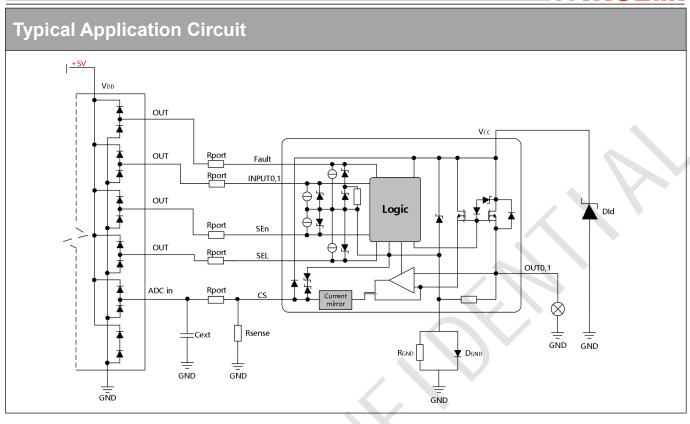
- Multiplexed analog feedback of load current with high precision proportional current mirror
- Off-state open load detection
- Output short to Vs detection

# **Protection Functions**

- Undervoltage shutdown
- Overvoltage clamp
- Load current limitation
- Output short-circuit protection
- Self limiting of fast thermal transients
- Protection against loss of ground and loss of Vs
- Thermal shutdown indication
- Electrostatic discharge protection

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