WSTQ724G Product Description

High-side driver for 24V automotive applications

WSTQ724G

Smart High-Side Power Switch Quad Channel, 80mQ, AEC-Q100 qualified

Application

- Suitable for resistive, inductive and capacitive loads 4
- 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

- Quad channel device ٠
- Very low stand-by current
- 3V and 5 V compatible logic inputs
- Optimized electromagnetic compatibility
- Very low electromagnetic susceptibility

Diagnostic Functions

- Open load detection in OFF-state
- Output short to Vbb detection
- Feedback of thermal shutdown in ON-state

Protection Functions

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

Pro

oduct Summary					
Parameter	Symbol	Value			
Max. transient supply voltage	V _{bb}	58V			
Operating voltage range	V _{NOM}	5-40V			
On-state resistance (per channel)	R _{ON}	80mΩ			
Nominal load current (one channel active)(T _A =25°C)	I _{L(NOM)1}	3A			
Nominal load current (All channels active)(T _A =25°C)	I _{L(NOM)2}	8A			
Current limitation(per channel)	I _{LIMH}	12A			
Supply current in sleep	I _{SLEEP}	3uA			





WINSEMI MICROELEC	TRONICS WINSEMI MICROELE	CTRONICS WINSEMI MICROELECTRONICS	WINSEMI MICROELECTRONICS	WINSEMI MICROELECTRONICS
www.winsemi.com	Tel : 0755-82506288	Fax : 0755-82506299	A0	

WINSEMI

WSTQ724G Product Description High-side driver for 24V automotive applications

WINSEMI

Typical Application Circuit

