Automotive Switch
High Current Device

Pyrotechnic Switch Normally Open PSS-6

- **Safe connection based on proven airbag technology**
- **Highly reliable over vehicle lifetime**
- **Stable and reliable contact**
- **Robust design, solid standby operation**
- **Flameless**

Product description:

In case of an accident, a pyrotechnical actuator short-circuits two terminals in less than three millisecond. It is triggered by the airbag Electronic Control Unit.

Typical applications:

The closing device short-circuits the two Fuell Cell terminals in less than three millisecond. This consumes Hydrogen contained in the Fuel Cell and makes it safe.
Can be used as a relay to activate any ekectrical system

Voltage

Rated voltage	450 V

Current

Maximum short circuit current	5kA / 5ms + 600A / 60s

Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Ni/Ag
Busbar profile	
Cross-section nominal	32 mm²

Initiator Data

Qualified acc. to	AK-LV 16 & USCAR
Initiator resistance	≥1,7Ω and ≤ 2,5 Ω
All- Fire current	1,75 A / 0,5 ms
or	1,20 A / 2,0 ms
No-Fire current	≤ 0,4 A
or	≤ 5,0 A / ≤ 4µs
Monitor current:	100 mA

Operation time

Release time	< 1 ms

Resistance & Insulation data

Busbar resistance (at RT)	
before ops.	≥ 10 MΩ
after ops	≤ 0,3 m Ω

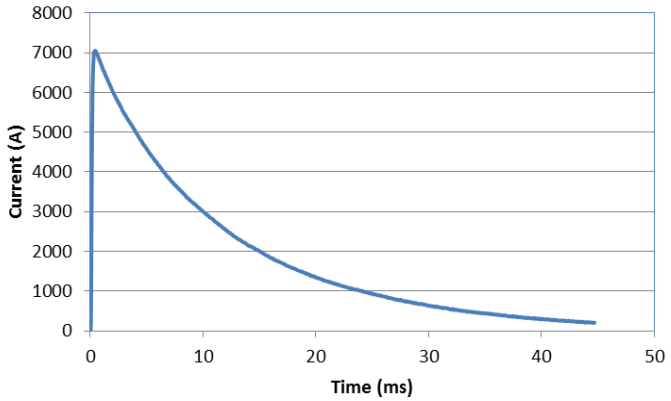
Temperature

Operating temperature	-40°C... + 105°C
Environmental temperature	-40°C... + 105°C
Storage temperature	-40°C..... +90°C
Self-ignition	≥ 210°C

Other Data

Vibration resistance acc. to	LV 124
Mech. Shock resistance acc. to	LV 124
Temperature cycle resistance acc. to	LV 124
Chemical loads resistance acc. to	LV 124
Terminal type	
on bus-bar	M8 screw
on initiator	ISO 19072-1 compliant (sealed and un-sealed)
Weight	80g

Short circuit example



Dimensions