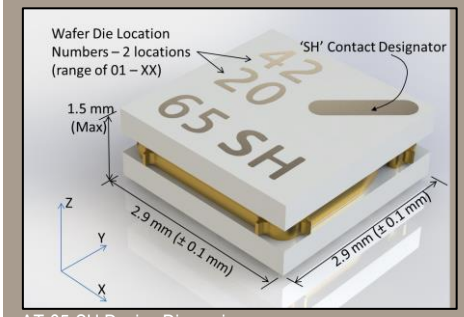
Micro G Switch
Semi-Hemispherical Contact
Model AT-65-SH

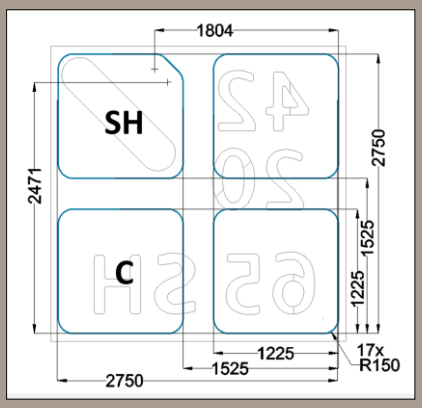
PRELIMINARY

FEATURES:
- Small and Lightweight – 8.4 mm^2
- Extremely Fast Response Times
- High Shock Survivability – 65,000+ g
- Surface Mount – Au over Ni Pads
- Tape and Reel Packaging
- Hermetic Seal

APPLICATIONS:
- Impact Detection
- Arming / Fuzing
- Artillery, Launch
- More



AT-65-SH Device Dimensions



AT-65-SH Pad Dimensions (micrometers) as viewed from pad side of device

Specifications

OPERATING CHARACTERISTICS:

Semi-Hemispherical Sensitivity Direction	-Z (normal to PCB)	
Contact Acceleration Thresholds (nominal) (4)	65	g
Contact Type (5)	Normally Open, Non-Latching	
Response Time (2) (3)	< 400	µs
Reset	Automatic with acceleration decay	

ELECTRICAL CHARACTERISTICS

Contact Resistance (1)	< 10	ohms
Insulation Resistance (min.)	1000	Mohm
Breakdown Voltage	>200	VDC

ENVIRONMENTAL RATINGS:

Operate Temperature Range	-55 to +125	°C
Storage Temperature Range	-55 to +125	°C
PCB/Pad Shear Force	> 20	N

PHYSICAL CHARACTERISTICS:

Nominal Dimensions (LxWxH)	2.9 x 2.9 x 1.3	mm
Volume	10.9	mm^3
Mass	< 60	milligrams
ROHS Compliant?	Yes	

(1) Contact resistance is dependent on input pulse acceleration level.
(2) Response time is a function of the acceleration profile
(3) Response time for a 650g pulse half sine with 1msec duration
(4) Response vs. Theta not constant
(5) Electrical connection between pads 'C'(common) & 'SH'(semi-hemispherical) is normally open and is closed while acceleration is greater than the contact acceleration threshold

Note that the information on this data sheet is for reference only.
Please verify the specifications as well as suitability for your application by consulting our engineering department.

This product and related technical data are controlled for export by the International Trade in Arms Regulations. Any sale, export, transfer or re-sale, in any form, requires the prior written approval of the U.S. Department of State.

Rev 170501