Electrical Specifications

Operation Characteristics

Absolute Maximum Ratings

Use permanently the component in range of absolute maximum rating may reduce the reliability of the device. We recommend to operate in typical values applications.

Electrostatic Discharge (ESD) Safeguards

The AIR500mA have a hight sensibility to ESD (Electrostatic Discharge). We recommend to link your body and devices **permanently** to the ground during manipulation of the chip.

Parameter	Symbol	Min.	Typical	Max.	Unit	Conditions
OFF state voltage between contact terminals	V_{clq}			100	V_{DC}	
DC carry current	I_{MAX}			0.5	**A**	
Mechanical endurance		$1x10^6$			**Cycles**	Tested at ambient temperature
Voltage GATE control	V_G	88	90	92	V_{DC}	
Storage Temperature Range	T_{St}	-65°C		125°C	**°C**	
Temperature	T_{Op}	-65°C		125°C	**°C**	

Table 1. Absolute Maximum Ratings

Electrical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit	Conditions
Contact on standby[1]			NO			
On-State Contact Resistance	**R_{ON}**			0.19	**Ω**	**DC**
Insertion Loss				-0.05	**dB**	**100MHz**
Off-State Contact Isolation	**R_{OFF}**	50			**MΩ**	**DC**
Return Loss				-41	**dB**	**100MHz**
Switching time	**t_c**					
Turn-ON time				50	**µs**	
Turn-OFF time				25	**µs**	
Volume			4.2		**mm^3**	

Table 2. DC and AC Electrical Specifications

Note :

1. The type of contact on standby NC or NO (Normally Open)

Functional Block Diagram

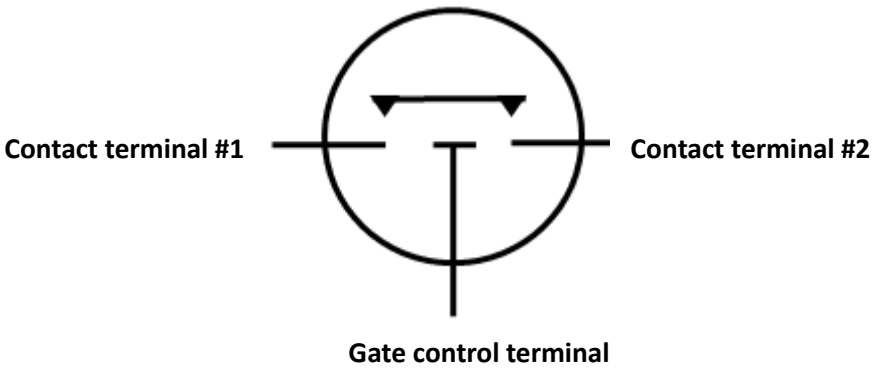

Figure 1. Functional Block Diagram

Package Outline and pin description

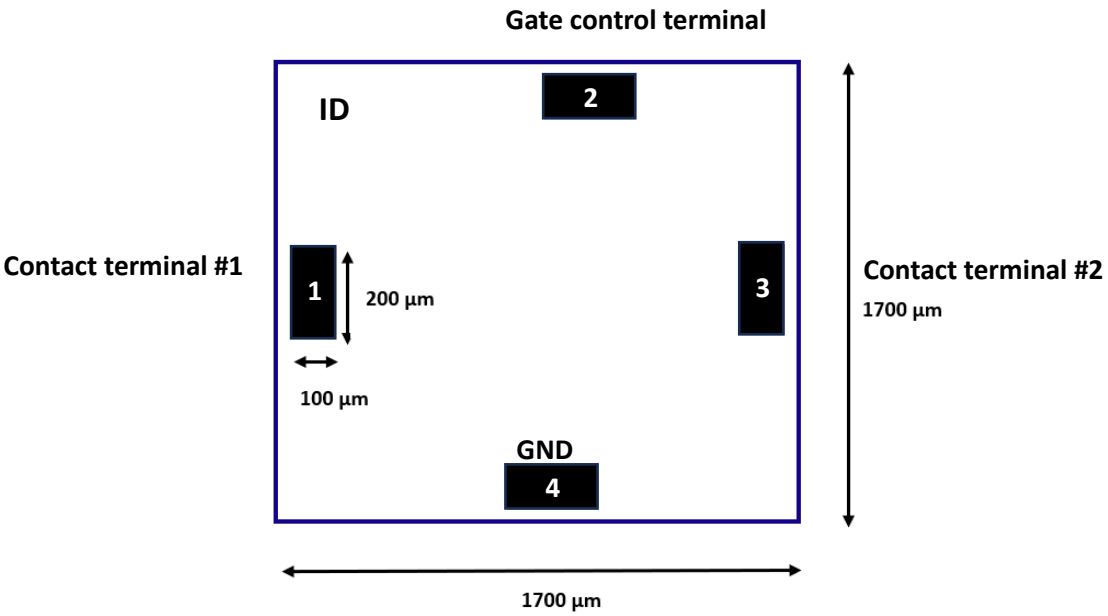

Figure 2. Size and Dimensions

Pin name	Pin#	Description
Contact terminal #1	1	Connect to the power line to be switched
Control terminal	2	Connect to the control voltage supply V_G
Control terminal #2	3	Connect to the power line to be switched
GND	4	Connect to common ground

Table 3. Pin informations