

# H48-2K Reliability Testing Report

## 2. Breakdown Voltage Test

### Procedure

Tested for Breakdown Voltage Test using a ASTM D149 at different condition (room temperature, aging 125°C , HAST and thermal shock).

**3.1 Room temperature @ 25°C**

**3.2 Thermal Aging @ 125°C (200 hrs, 400 hrs, 700 hrs, 1000 hrs)**

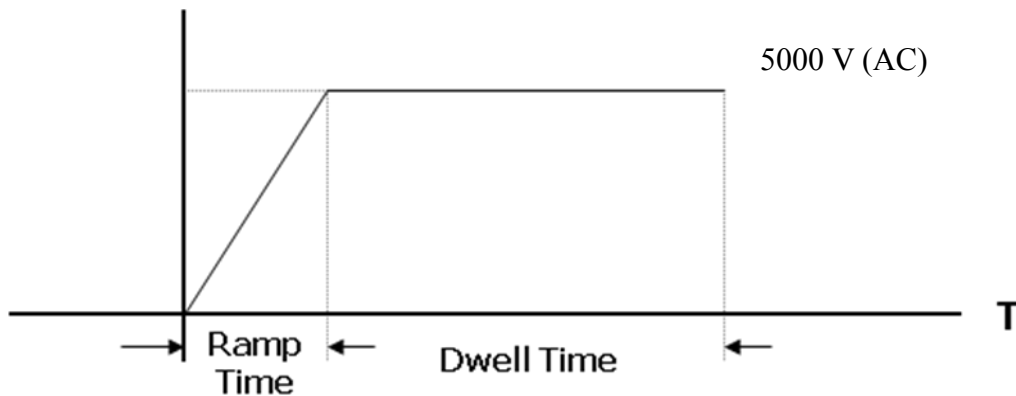
**3.3 Thermal HAST @ 85°C/85%RH (200 hrs, 400 hrs, 700 hrs, 1000 hrs)**

**3.4 Thermal Cycling @ -40°C to 120°C for 500 cycles (100 cycles, 200 cycles, 300 cycles, 400 cycles, 500 cycles)**

## Results

High pot (AC @ kV)	0 hr	200 hrs	400 hrs	700 hrs	1000 hrs
Room temperature	>3	-	-	-	-
Thermal Aging	>3	>3	>3	>3	>3
Thermal HAST	>3	>3	>3	>3	>3

High pot (AC @ kV)	100 cycles	200 cycles	300 cycles	400 cycles	500 cycles
Thermal Cycling	>3	>3	>3	>3	>3



**Ramp time: 20 sec**

**Dwell time: 60 sec**

**Max Voltage: 5000 V (AC)**

Note:

The data for design engineer guidance only. Observed performance varies in application.

Engineers are reminded to test the material in application.