

## ..... IOL SYSTEMS - operating life test .....

Our standard IOL system is able to test low power devices soldered on substrate as well as high power devices. System can handle p-channel or n-channel MOS, IGBT and diodes and consist of two parts.

### CALIBRATING EQUIPMENT:

This calibrating equipment is necessary above all for low power smd devices because the data sheet thermal resistance  $R_{th}$  is almost always different of actual  $R_{th}$  of DUT on test board

This equipment offers following features :

**Test capacity :** 80 DUTs

**Operating systems :** MS Windows XP

**Possible modes :** - calibration

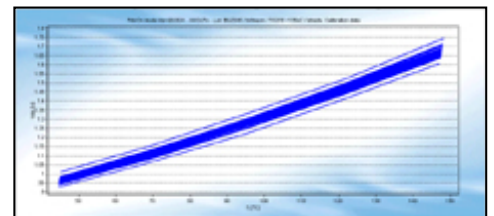
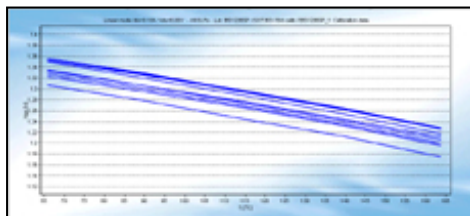
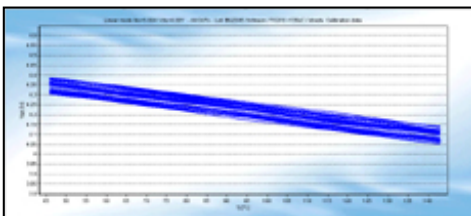
- IOL test by high temperature, f.e. between 150°C and 200°C

**Measurement :** - Thermal dependance of  $V_{gs}$ ,  $R_{ds(on)}$  and  $V_r(\text{diode})$

- Actual thermal resistance  $R_{th}$  of all DUTs on test board

**Handling :** Comfortable graphic platform

After calibration system offers calibrating datas for IOL test and graphs of thermal dependance of different parameters, so that operator can see, which parameter is the best for the measurement of junction temperature  $T_j$  during the following IOL test



## IOL TEST SYSTEM :

This equipment offers following features :

**Test capacity :** 3 lots with 80 DUTs per lot

constant power with accuracy of 1%

**Test condition :** constant current with accuracy of 1%

**Current range :** Autoranging 20mA to 2A or 20mA to 20A

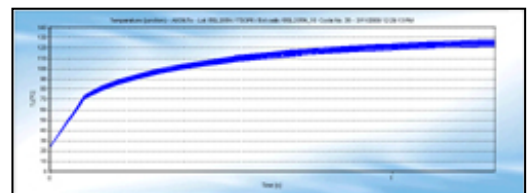
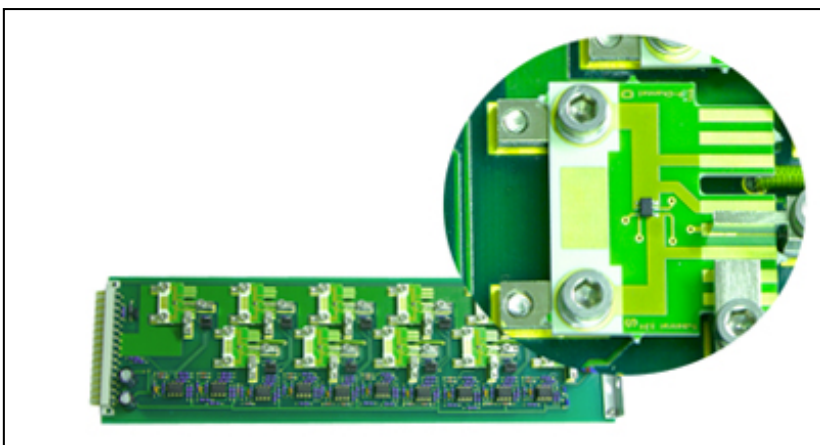
Junction temperature of each DUT every 50ms

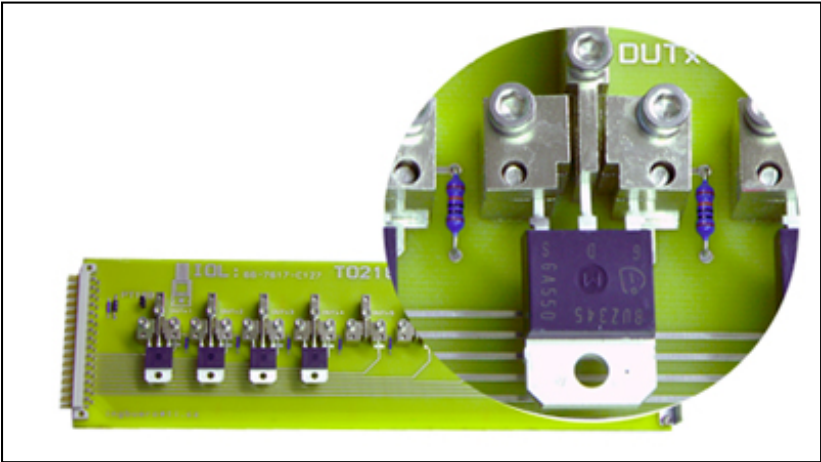
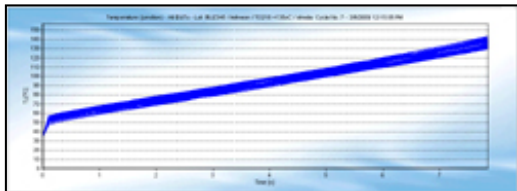
**Measurement :** Load current and voltage of each DUT every 50ms  
Case temperature measurement over PT100

**Power supplies :** Programmable 15V/200A for each lot

**Operating system :** MS Windows XP

**Handling :** Comfortable graphic platform





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