

## SMM Process Flow for Medical Implantable Applications



### KEY BENEFITS

- Strict manufacturing process controls result in high quality and reliability
  - Enhanced quality control gates for every lot
  - SBL (Statistical Bin Limit) / SYL (Statistical Yield Limit) and Statistical PAT (Part Average Testing) controls for wafer and component package testing
  - AQL = 0.04 %
  - Homogenous Reliability testing for all wafer lots
- Broad power MOSFET portfolio including
  - N-channel, p-channel, and N&P pair configurations in various package sizes
  - Small packaging sizes down to 1.6 mm x 1.6 mm: [SC-75A](#), [SC-70](#), [SOT-23](#), [TSOP-6](#), [PowerPAK® 1212-8](#), [SO-8](#), and [PowerPAK SO-8L](#)
- On-resistance down to 0.011  $\Omega$ 
  - Ultra-low on-resistance lowers conduction losses, saving power
- On-resistance ratings down to  $V_{GS} = 1.2$  V allow use with small input voltages

### APPLICATIONS

- Medical implantable applications including:
  - Drug delivery systems
  - Defibrillators
  - Pacemakers
  - Hearing aids

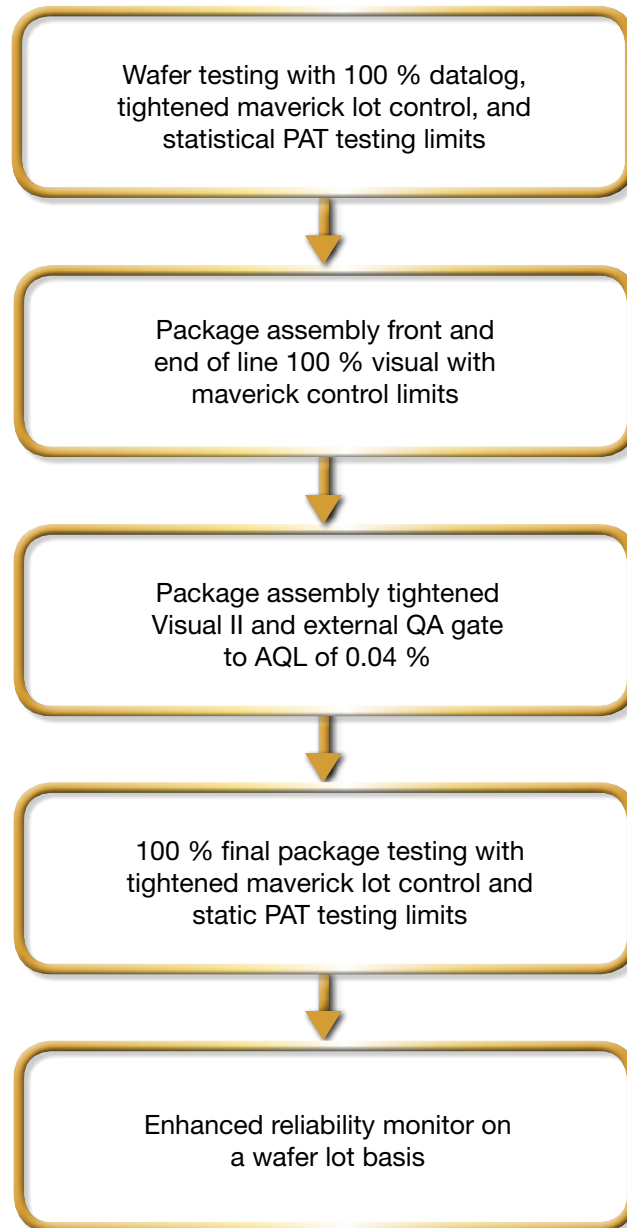
### RESOURCES

- Datasheet: Power MOSFETs - <http://www.vishay.com/medical-mosfets/>
- For technical questions contact [pmstechsupport@vishay.com](mailto:pmstechsupport@vishay.com)

## SMM Medical Flow

The SMM medical flow is a process flow generated for supporting the high-reliability, high-quality requirements of medical devices, including implantables.

### SMM MEDICAL FLOW SUMMARY



For latest list of devices visit <http://www.vishay.com/medical-mosfets/>

For other MOSFET devices visit <http://www.vishay.com/mosfets>