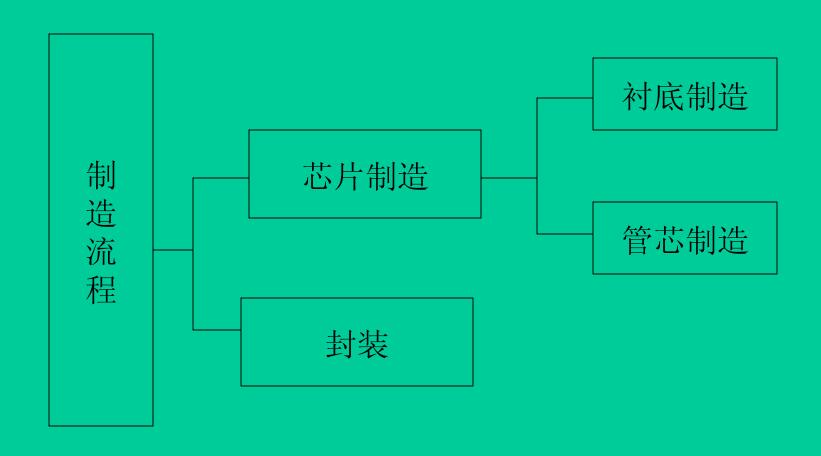
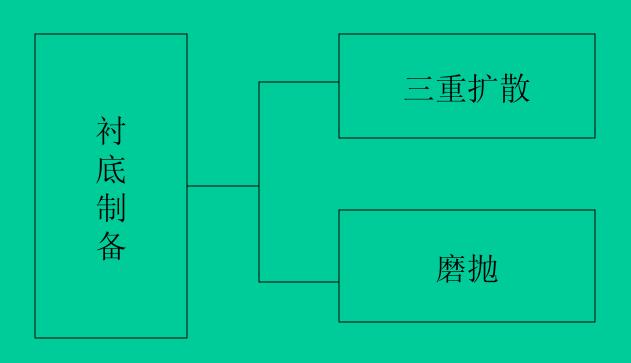
# 双极晶体管制造工艺流程

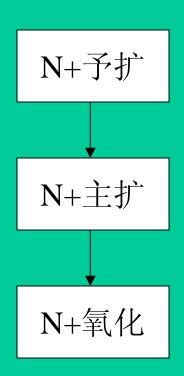
(以NPN管为例)

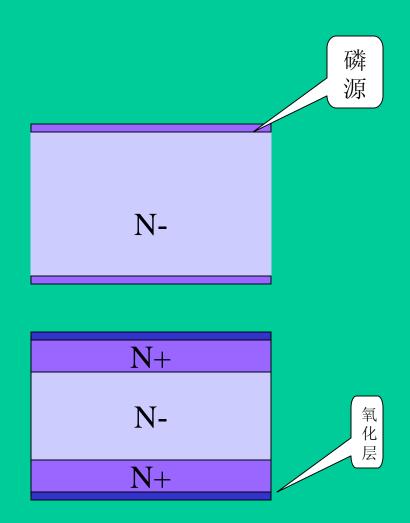
TV160 彩电维修资料网http://www.tv160.net



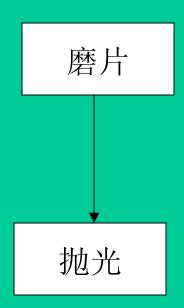


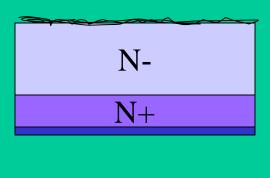
#### 三重扩散





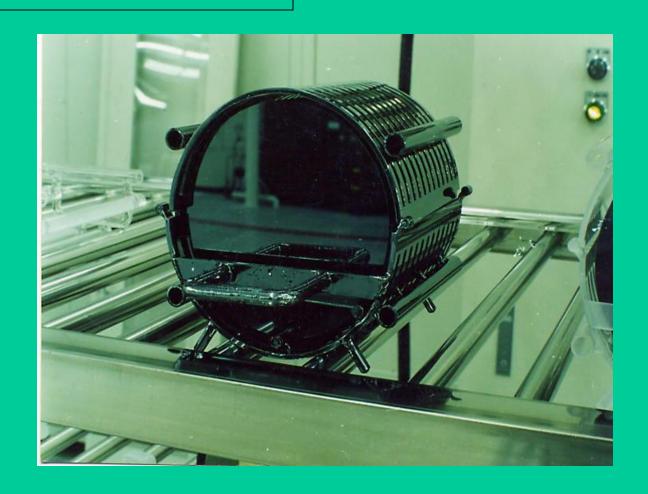
## 磨抛



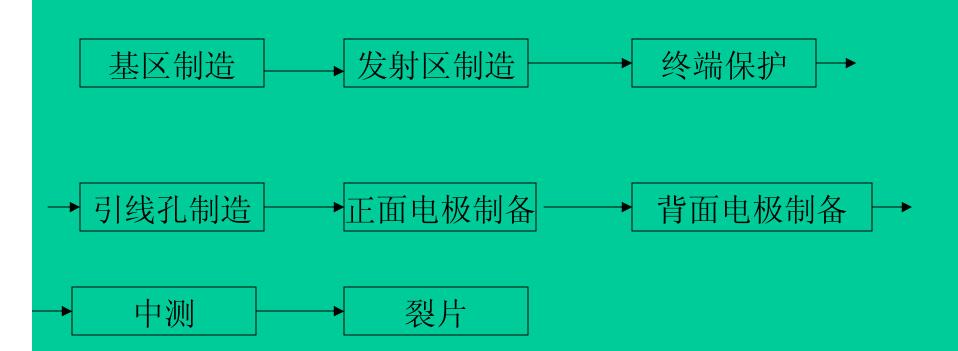


N-N+

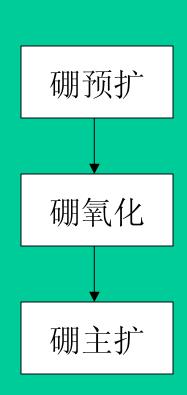
## 衬底制备结束后照片

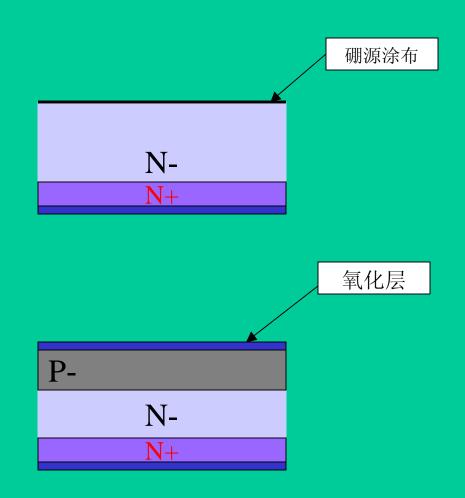


管芯制造:

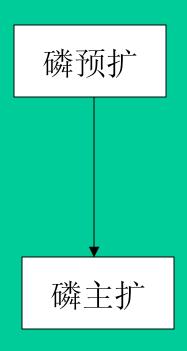


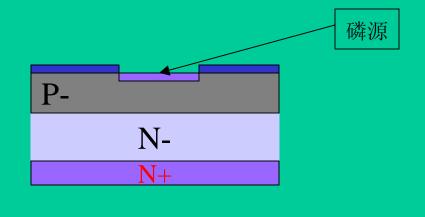
#### 基区制造

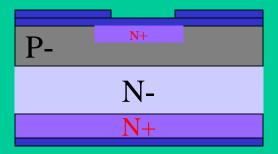




## 发射区制造:



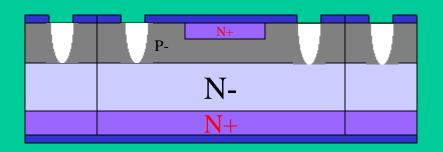




#### 终端保护:

台面腐蚀

玻璃电泳

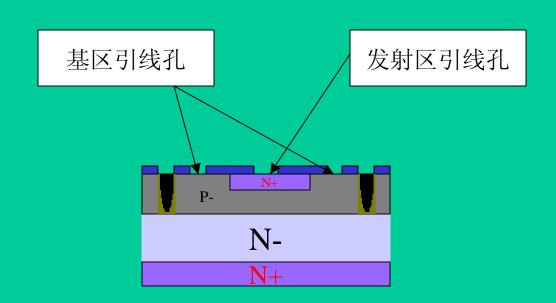


玻璃粉

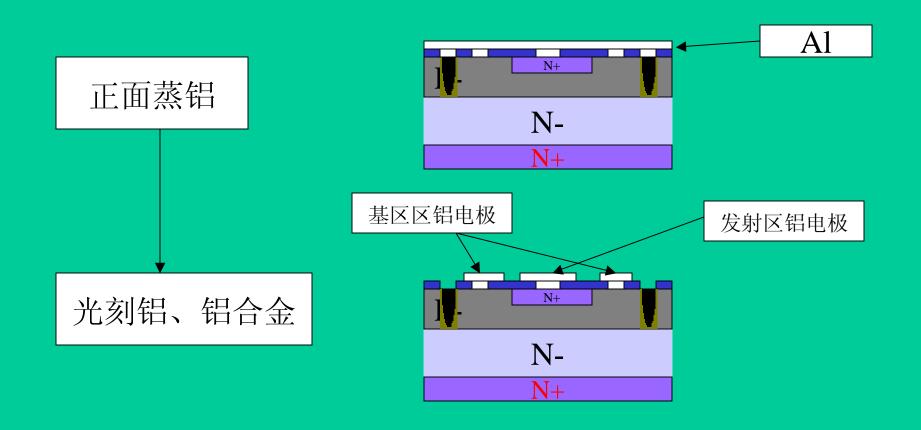
P- N+ N+

#### 引线孔制造:

引线孔光刻

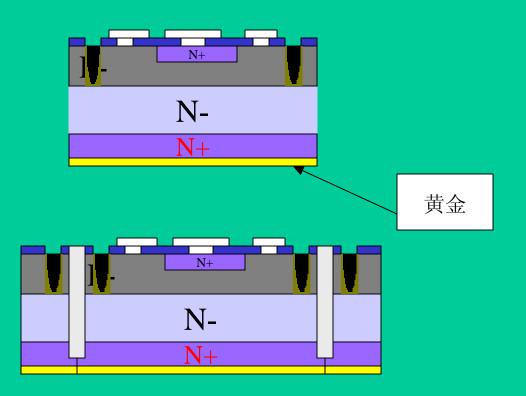


#### 正面电极制备:



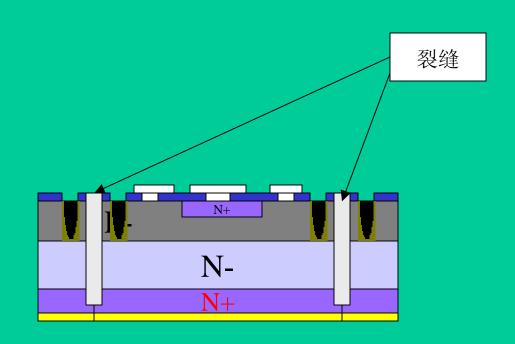
背面电极制备:

背面蒸金

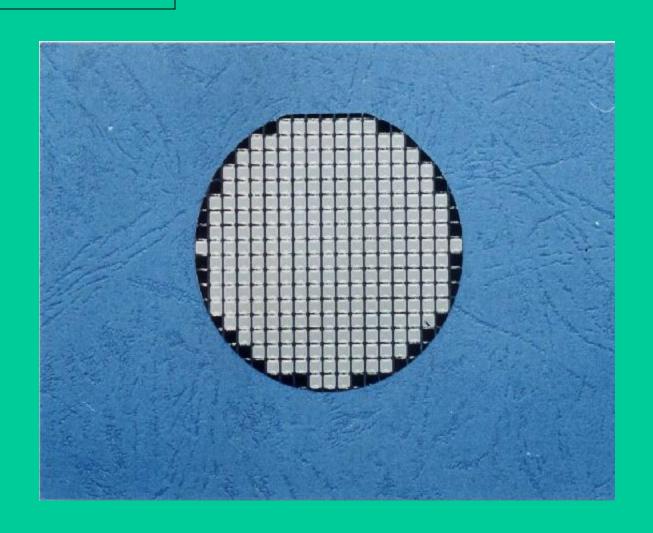


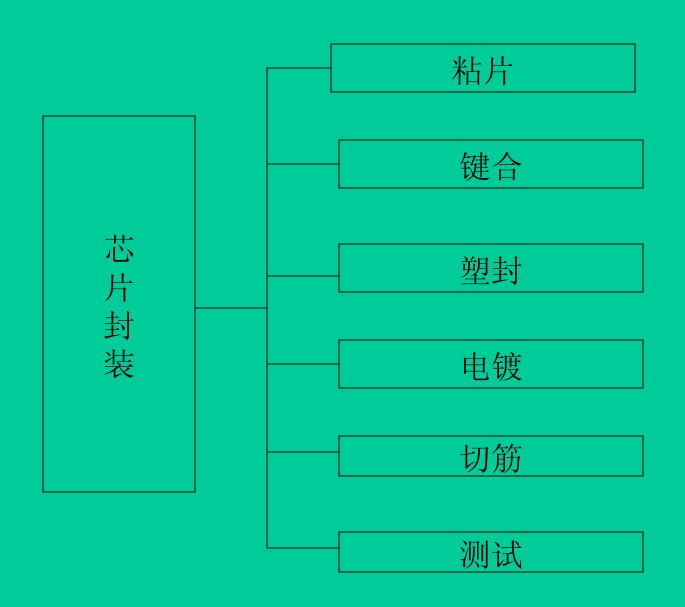
裂片:

裂片



# 管芯制造后照片





# 封装后成品照片

