



INSTALL A REFERENCE TRANSISTOR IN  
HOLES 1-5; DEVICE UNDER TEST GOES  
IN HOLES 6-10

DVM READS THE DELTA-VBE BETWEEN  
REF.TRANSISTOR AND D.U.T.

TAPE THE D.U.T. TO STIFF PAPER  
AND WRITE ITS DELTA-VBE BELOW.  
REPEAT FOR 20-100 MORE DEVICES  
ALL USING THE SAME REF.TRANSISTOR

TWO D.U.Ts "MATCH" WHEN THEY HAVE  
THE SAME DELTA-VBE (USING THE SAME  
REFERENCE TRANSISTOR). TRY TO GET  
MATCHES WITHIN 1 MILLIVOLT OR LESS

BEST PRACTICE IS TO MARK THE  
REFERENCE TRANSISTOR WITH A  
DOT OF COLORED NAIL POLISH  
SO IT IS EASILY IDENTIFIED.  
NOW YOU CAN RE-USE IT A MONTH  
LATER FOR ADDITIONAL MATCHING

MH1 MH2 MH3 MH4

# BJT SIMPLE MATCHER

Sheet: /  
File: Tiny\_BJT\_match.kicad\_sch

Title:

Size: A Date:  
KiCad E.D.A. 8.0.4

Rev:  
Id: 1/1