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News

K8055, K8055N, VM110, VM110N iPhone Application

iPhone application for K8055, K8055N (kit) or VM110,...

Posted on 02-11-13

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K8055, K8055N, VM110, VM110N Android Application

Android application for K8055, K8055N, VM110 & VM110NUSB...

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SEMICONDUCTOR COMPONENT ANALYZER



DCA55

Support

[User manual](#)
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Features

- automatic component type identification
- automatic pinout identification
- special feature identification such as protection diodes and resistor shunts
- bipolar transistors: gain and leakage current measurements, silicon and germanium detection
- gate threshold measurement for Enhancement Mode MOSFETs
- semiconductor forward voltage measurement for diodes, LEDs and transistor Base-Emitter junctions
- automatic and manual power-off

Specifications

- Specification Summary at 20°C (68°F) unless otherwise specified
- peak test current into short circuit: -5.5 mA to 5.5 mA
- peak test voltage across open circuit: -5.1 V to 5.1 V
- transistor:
 - gain range (Hfe): 4 - 65 000
 - gain accuracy: ± 3% ± 5 Hfe
 - Vce test voltage: 2.0 V - 3.0 V
 - Vbe accuracy: -2% -20 mV to +2% + 20 mV
 - VBE for Darlington (shunted): 0.95 V - 1.80 V (0.75 V - 1.80 V)
 - base-emitter shunt threshold: 50 kΩ - 70 kΩ
 - BJT collector test current: 2.45 mA - 2.55 mA
 - BJT acceptable leakage: 0.7 mA
 - MOSFET:
 - gate threshold range: 0.1 V - 5.0 V
 - threshold accuracy: -2% -20 mV to +2% +20 mV
 - drain test current: 2.45 mA - 2.55 mA
 - gate resistance: 8 kΩ
 - depletion drain test current: 4.5 mA
 - JFET drain-source test current: 0.5 mA - 5.5 mA
- SCR/Triac:
 - gate test current: 4.5 mA
 - load test current: 5.0 mA
- diode:
 - test current: 5.0 mA
 - voltage accuracy: -2% -20 mV to +2% +20 mV
 - Vf for LED identification: 1.50 V - 4.00 V
 - short circuit threshold: 10 Ω
- battery:
 - type: MN21 / L1028 / GP23A 12 V alkaline
 - voltage range: 7.50 V - 12 V
 - warning threshold: 8.25 V
- dimensions: 103 x 70 x 20 mm (4.1" x 2.8" x 0.8")
- Weight per product (nett): 0.098kg (3.5oz)
- Operating temperature range: 0°C~50°C (32F ~ 122F)

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