SPECIFICATIONS

IN-CIRCUIT:

- GOOD/BAD test for transistors, FET's, or SCR's.
- Identifies transistor as NPN or PNP and FET as N or P channel.
- Identifies gate lead of FET or base lead of transistor (HI drive).
- Identifies all leads of transistor when using LO drive.
- Identifies all leads of SCR.
- Identifies polarity of diodes.

OUT-OF-CIRCUIT:

- GOOD/BAD test for transistors, FET's or SCR's.
- Identifies transistor as NPN or PNP and FET as N or P channel.
- Identifies gate lead of FET by test lead color.
- Identifiers all leads of transistor or SCR by test lead color.
- Measures breakdown voltage up to 100V for transistors, SCR's and diodes.
- Measures reverse LEAKAGE from 0.5 μA to 5 mA for transistors, SCR's and diodes.
- Measures I_{DSS} and gate leakage of FET's.
- Measures β for low- and high-power transistors.
- Measure g_m for low- and high-power FET's.
- Measures $f\tau$ (gain-bandwidth-product of bipolar transistors) up to 1.5 GHz.

APPLIED TEST CURRENTS:

- Base drive: 200 mA (HI drive) or 1 mA (LO drive) at 4% duty-cycle.
- Collector Drive: 100 mA at 4% duty-cycle.
- Test Repetition Rate: 7 per second.
- Reverse Voltage for Leakage Test: 0 to 10 V (5 mA) and 10 V to 100 V (100 μA).
- Beta Base Drive Current: LOW PWR @ 50 μA continuous; HIGH PWR @ 10 mA pulsed at approximately 1% duty-cycle.

LIMITING IN-CIRCUIT SHUNT VALUES FOR VALID GOOD/BAD TEST:

- Resistance: Down to 10 ohms with HI drive.
  Down to 1.5k ohms with LO drive.
- Capacitance: Up to 15 mfd with HI drive.
  Up to .3 mfd with LO drive.

$f\tau$ MEASUREMENTS:

- Test voltage: 8 volts.
- Test current (fixed) 10 mA.
- Test ranges:
  1. $f\tau$ = 0 to 100 MHz; test frequency = 1 MHz.
  2. $f\tau$ = 0 to 500 MHz; test frequency = 10 MHz.
  3. $f\tau$ = 0 to 1500 MHz; test frequency = 30 MHz.

ACCURACY OF TEST MEASUREMENTS

Measurement	Typical	Guaranteed	
	@ 25° C.	@ 25° C.	@ 0-50° C.
Beta (High- and Low-Power)	7%	10%	15%
g_m (High- and Low-Power)	7%	10%	15%
Leakage Current	10%	20%	25%
$f\tau$	10%	20%	30%

ACCESSORIES:

- Three test leads with mini-lock clips supplied.
- Short test leads for $f\tau$ measurements, supplied.
- FP-5 Dynaflex Probe (optional).

SIZE:

13-3/8" x 10-1/8" x 4".
(34 cm x 25.7 cm x 10.2 cm.)

WEIGHT:

5.9 lbs. (2.67 Kg).