MIL-S-19500/331A(EL)
AMENDMENT-2

29 January 1974
SUPERSEDING
AMEND-1
15 June 1971

MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR, PNP, GERMANIUM
TYPES 2N1553A through 2N1556A

This amendment forms a part of Military Specification MIL-S-19500/331A(EL) dated 8 February 1971 and is approved for use by all Departments and Agencies of the Department of Defense.

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Figure 2: Bias resistor; change "9.9 " to "0-50 ".

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Figure 3: Remove and substitute the attached Figure 3.

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Figure 4: Remove and substitute the attached Figure 4.

Custodian:
Army-EL

Preparing Activity
Army-EL
Project Nr. 5961-A582
FSC-5961

SAFE OPERATING AREAS

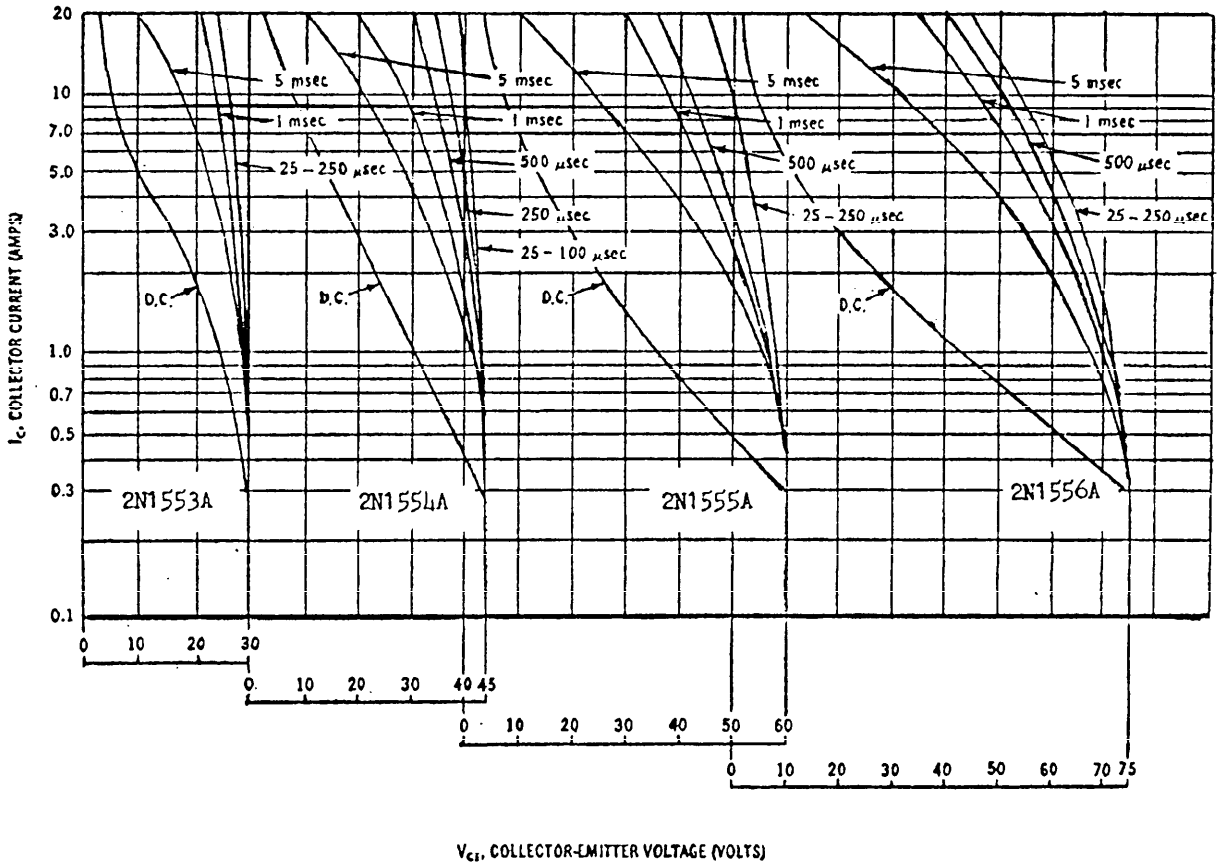
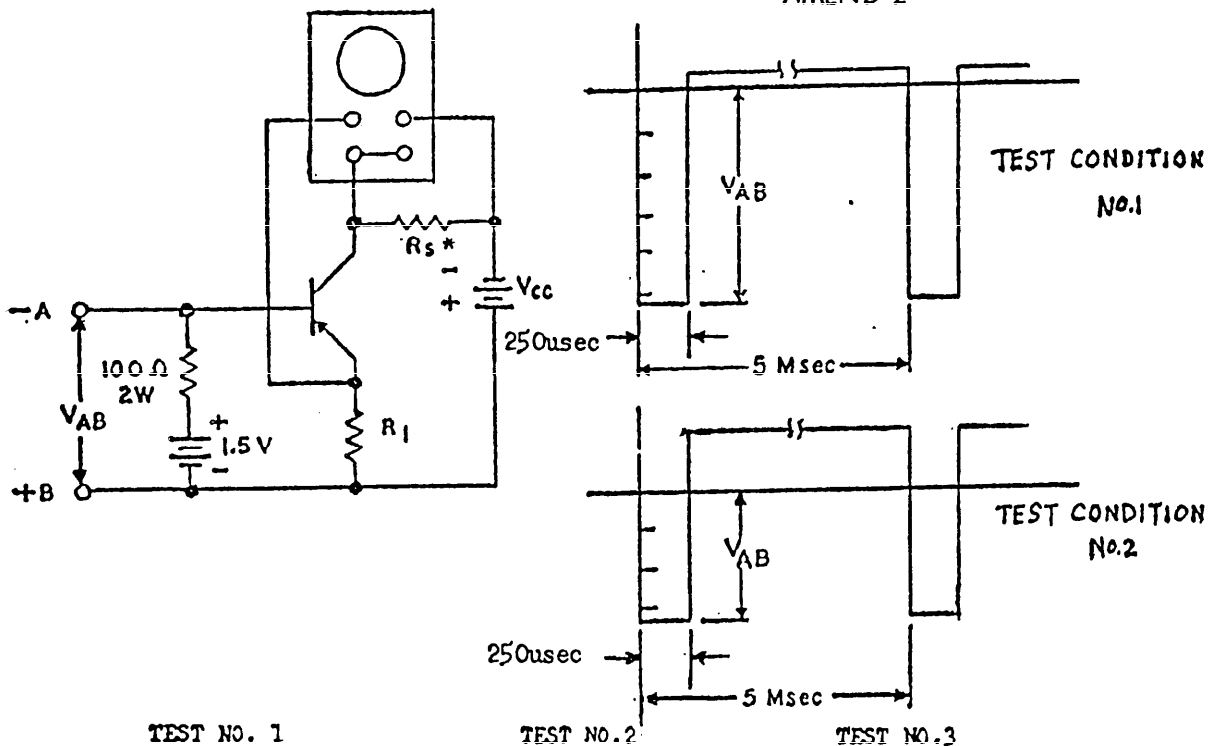


FIGURE 3 Safe operating Area curves.



	TEST NO. 1			TEST NO. 2			TEST NO. 3		
	R_1	V_{AB}**	V_{CC}	R_1	V_{AB}**	V_{CC}	R_1	V_{AB}**	V_{CC}
2N1553A	1Ω, 50W	21.5V	47V	20Ω, 20W	21.5V	50V	5 Ω, 20W	10V	30V
2N1554A	1Ω, 50W	21.5V	56.5V	20Ω, 20W	20.6V	64.0V	10Ω, 20W	13V	42.5V
2N1555A	1Ω, 50W	21.5V	67V	10Ω, 20W	22.5V	77V	10Ω, 20W	10.6V	47V
2N1556A	1Ω, 50W	21.5V	67V	5Ω, 20W	15.6V	81V	20Ω, 20W	15.6V	66V

V_{CC} AND V_{AB} ARE REGULATED POWER SUPPLIES (± 1% BOTH LINE AND LOAD.)

* R_S IS 0.1Ω NON INDUCTIVE 2 WATT. A CURRENT PROBE MAY BE USED IN LIEU OF THIS SENSE RESISTOR.

** ADJUSTMENT WILL BE NECESSARY TO SET THE EXACT CURRENT AND VOLTAGE POINTS SPECIFIED IN TEST 1, 2 AND 3.

TEST Nº 3 A D.C. REGULATED SUPPLY IS CONNECTED TO POINTS A, B (MINUS TO POINT "A").

Figure 4. Safe area Test circuit