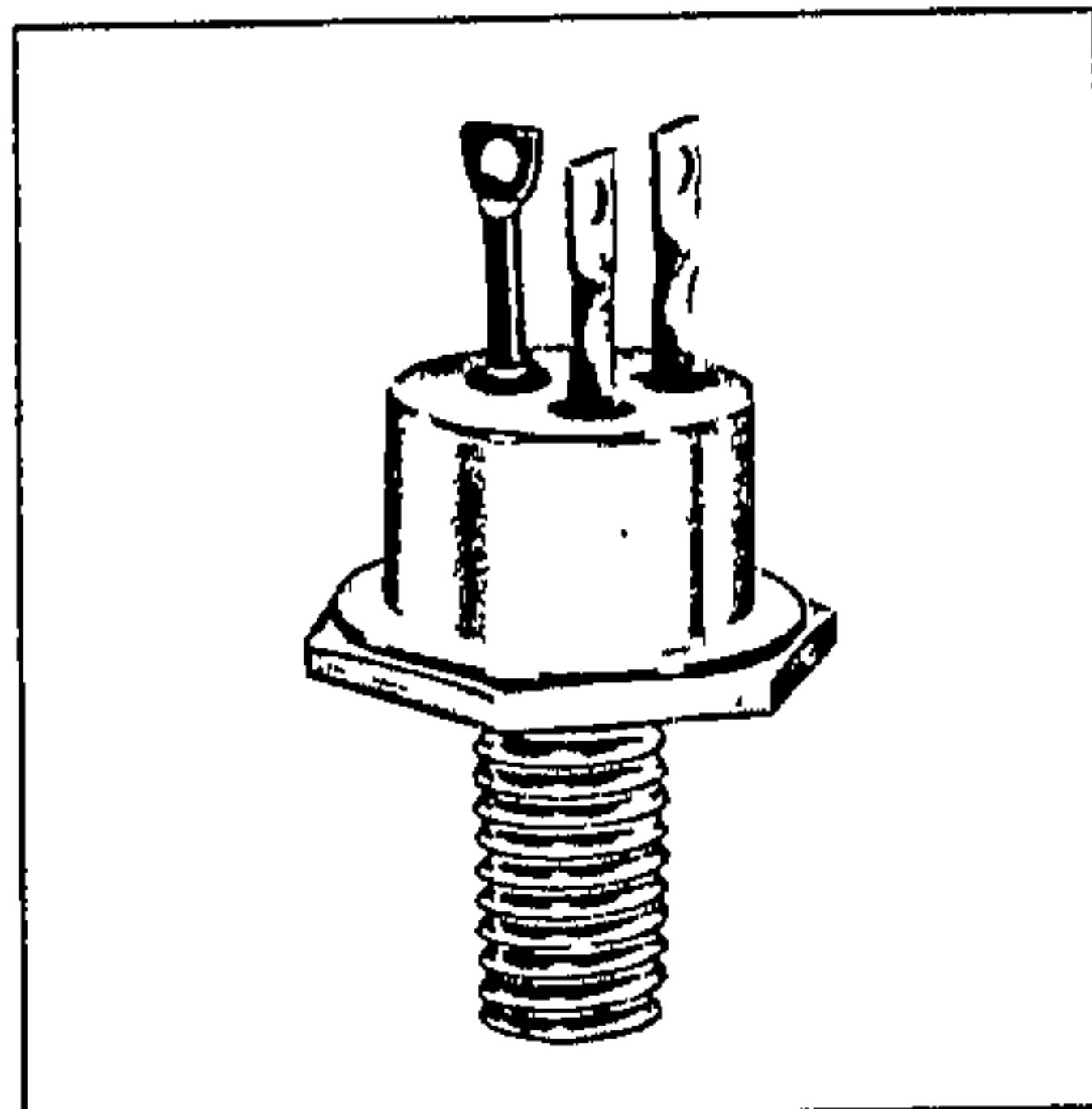


TD 54-672 Page 3

Westinghouse

**Typical Applications**

- | | |
|---------------------|------------------|
| Amplifiers | Inverters |
| Switching Circuits | Ignition Systems |
| Industrial Controls | Modulators |
| Regulators | Servo Systems |
| Power Supplies | Sweep Circuits |
| Pulse Generators | Logic Circuits |
| Oscillators | Active Filters |

"O.E.M. Line"
Silicon Power Transistors
Westinghouse Type 153
Type 154

7.5 Amperes, 200 Watts
 Collector Voltages 40 to 300 Volts

Maximum Ratings

Type	V _{CBO}	V _{CE}	V _{EBO}
153-04	154-04	65	40
153-06	154-06	85	60
153-08	154-08	105	80
153-10	154-10	125	100
153-12	154-12	145	120
153-14	154-14	165	140
153-16	154-16	185	160
153-18	154-18	205	180
153-20	154-20	225	200
153-22	154-22	245	220
153-24	154-24	265	240
153-26	154-26	285	260
153-28	154-28	305	280
153-30	154-30	325	300

Current

Collector current, I_C, Adc..... 7.5
 Base current, I_B, Adc..... 3.0

Power

Power dissipation, P_T @ T_C=25°C,
 watts, max..... 200
 Linear derating factor from 25°C..1.33W/°C

Temperature

Storage and operating temperature,
 T_{stg}, T_J..... -65 to +175°C



DATA SHEETS

7294621 POWEREX INC
40C 00604 D T-33-15

A-42

7294621 POWEREX INC

40C 00605 D T-33-15

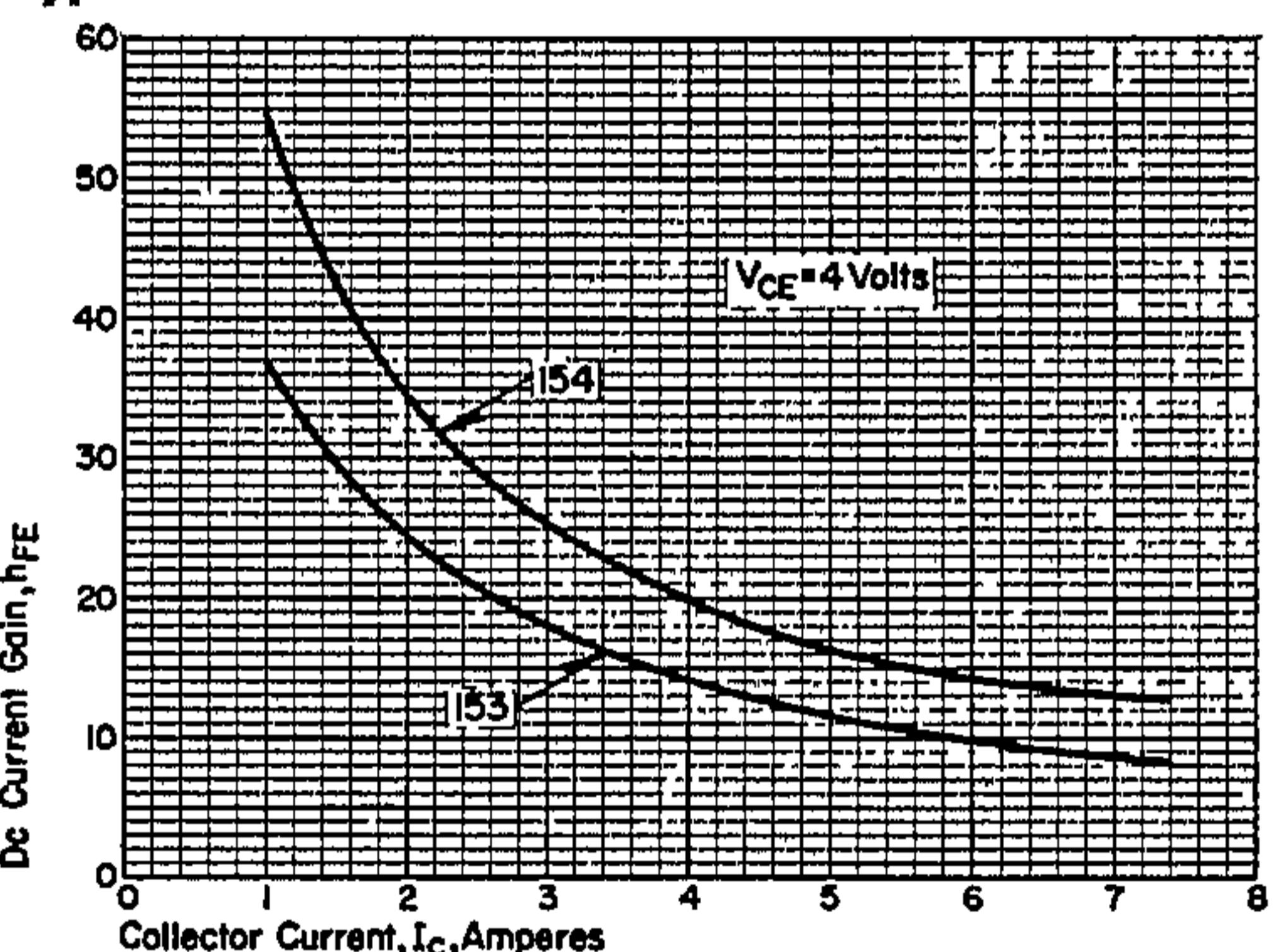
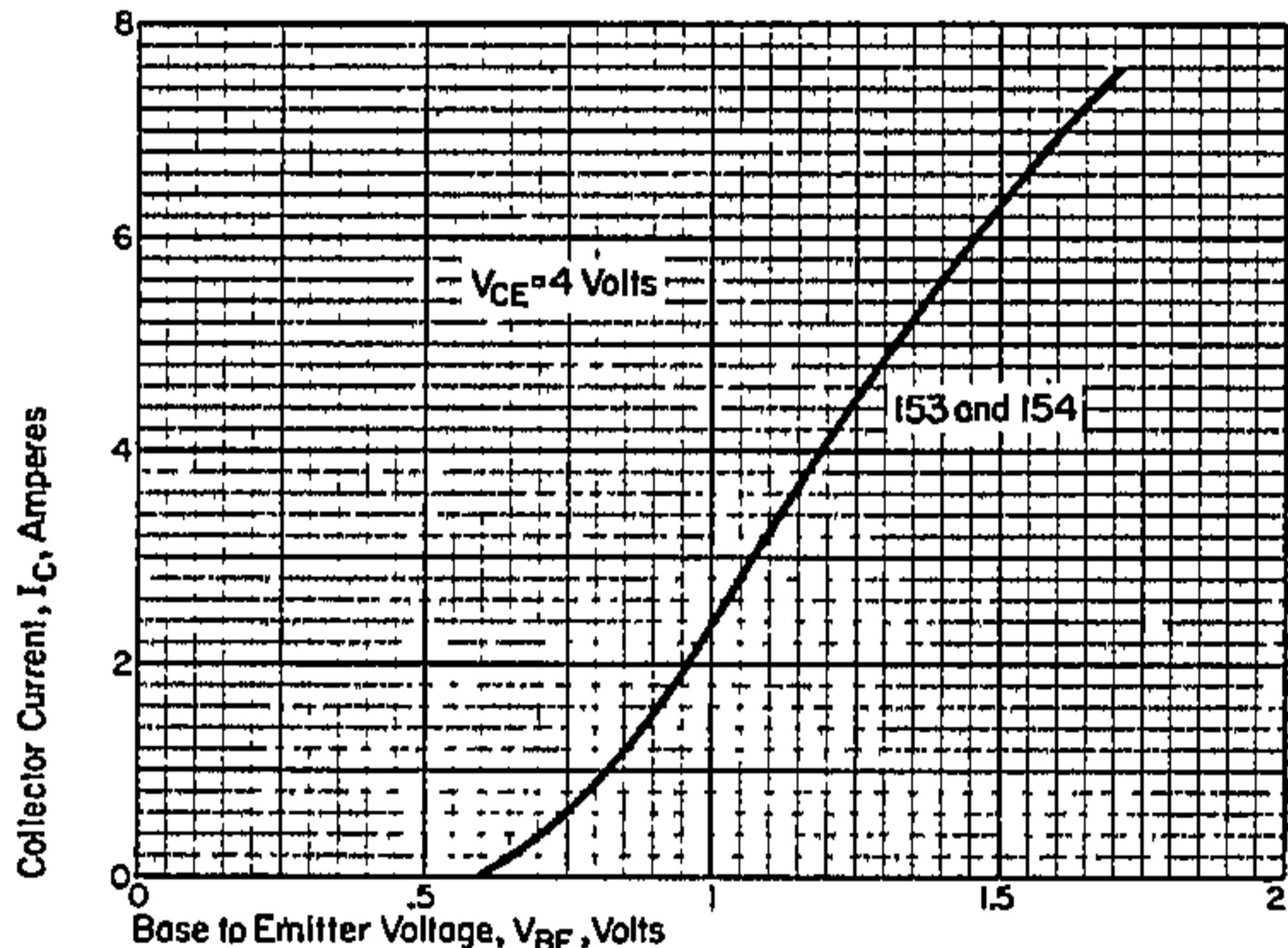
DATA SHEETS



A-43

Electrical Characteristics
 $T_C = 25^\circ\text{C}$ unless otherwise specified

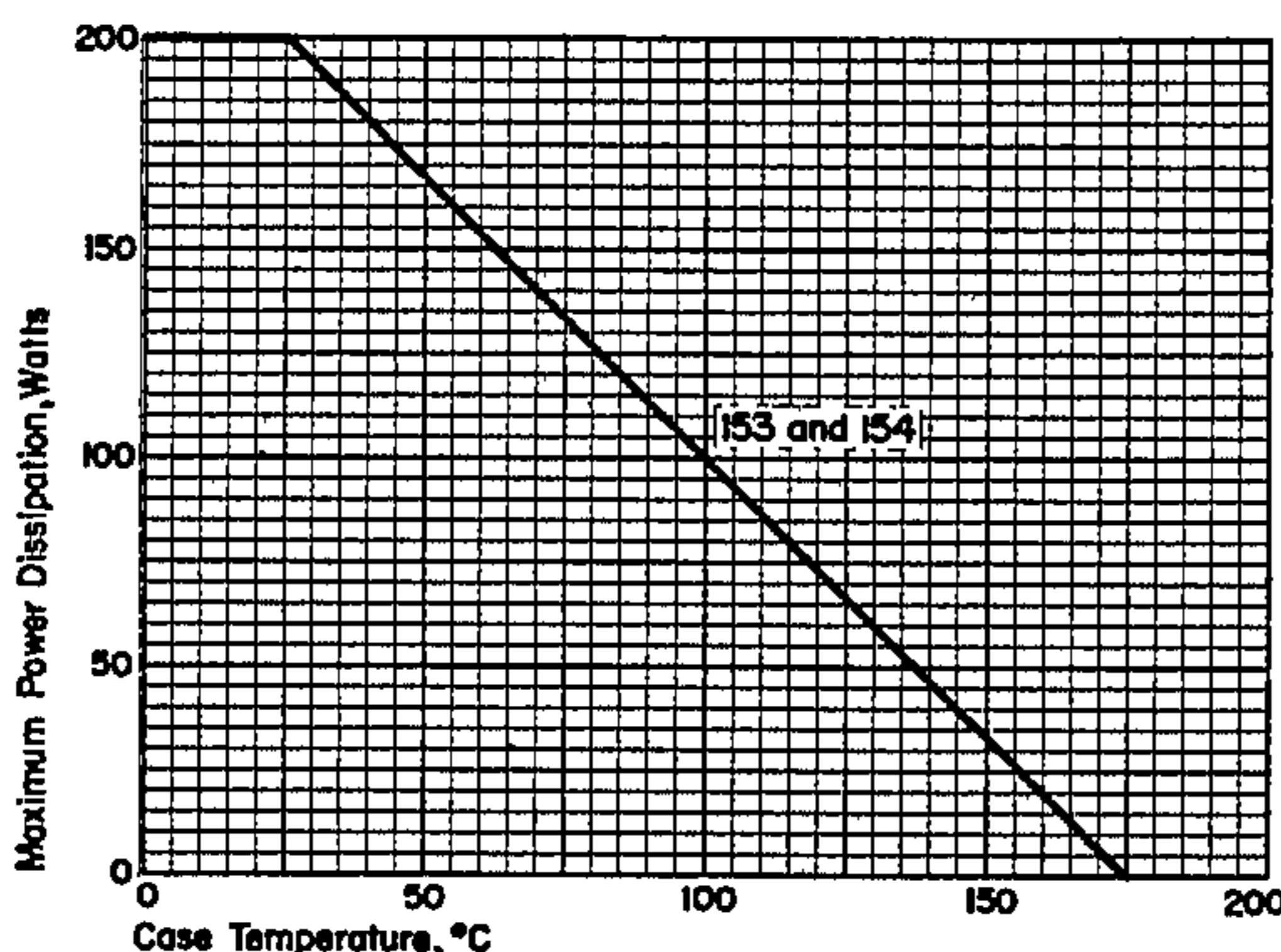
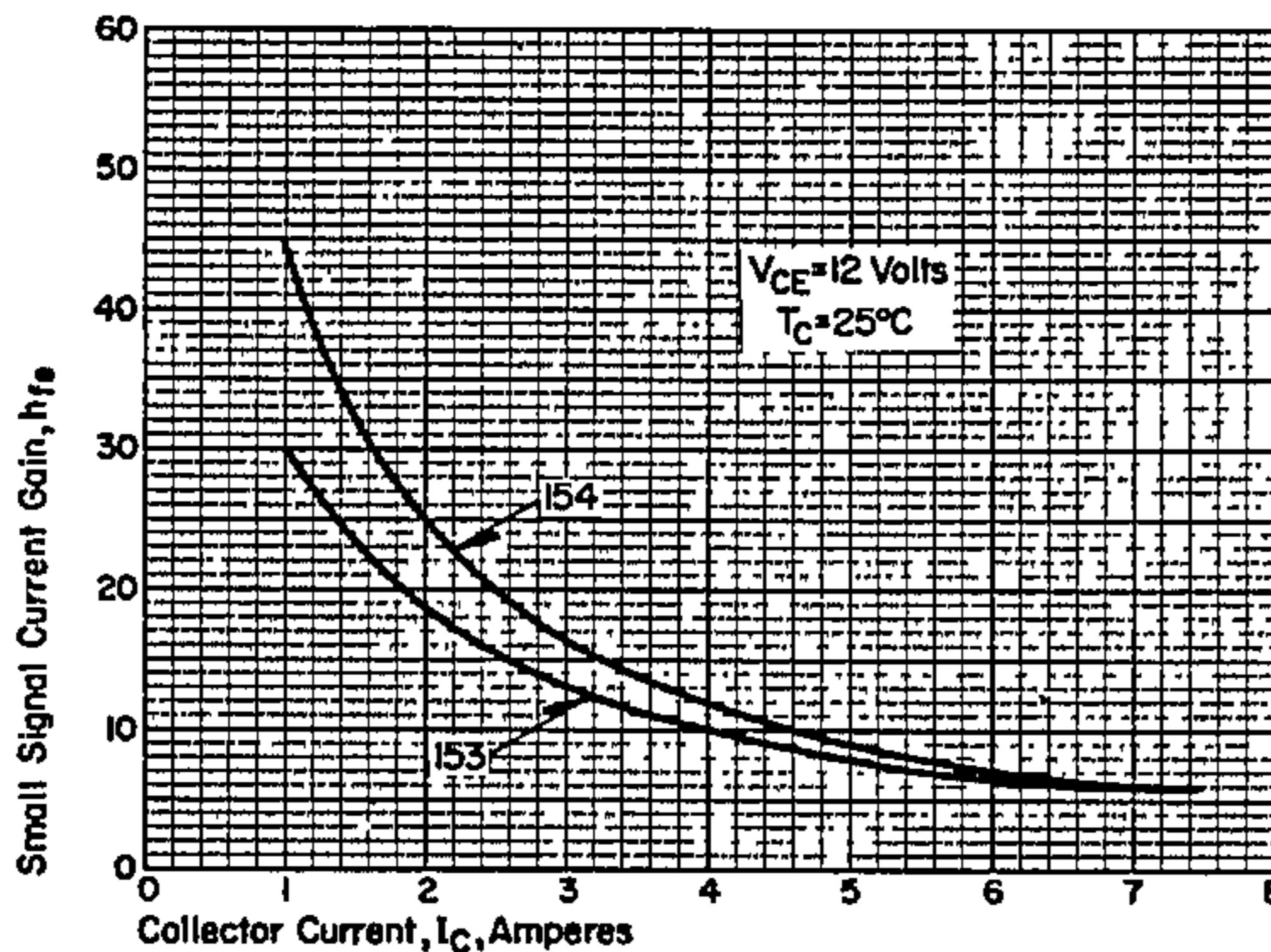
Symbol	Type 153			Type 154		
	Min.	Typ.	Max.	Min.	Typ.	Max.
I_{CEX}	10	..	..	10
I_{CEX}	20	..	..	20
I_{EBO}	20	..	..	20
t_{on}	..	3	..	..	3	..
t_{off}	..	6	..	..	6	..
$V_{CE(sat)}$	1.30	..	..	1.25
$V_{BE(sat)}$	2.5	..	..	2.0
V_{BE}	2.2	..	..	1.8
h_{FE}	15	..	..	25	..	..

Typical CharacteristicsFigure 1. Typical dc gain versus collector current at $T_C = 25^\circ\text{C}$.Figure 2. Typical transconductance characteristics at $T_C = 25^\circ\text{C}$.



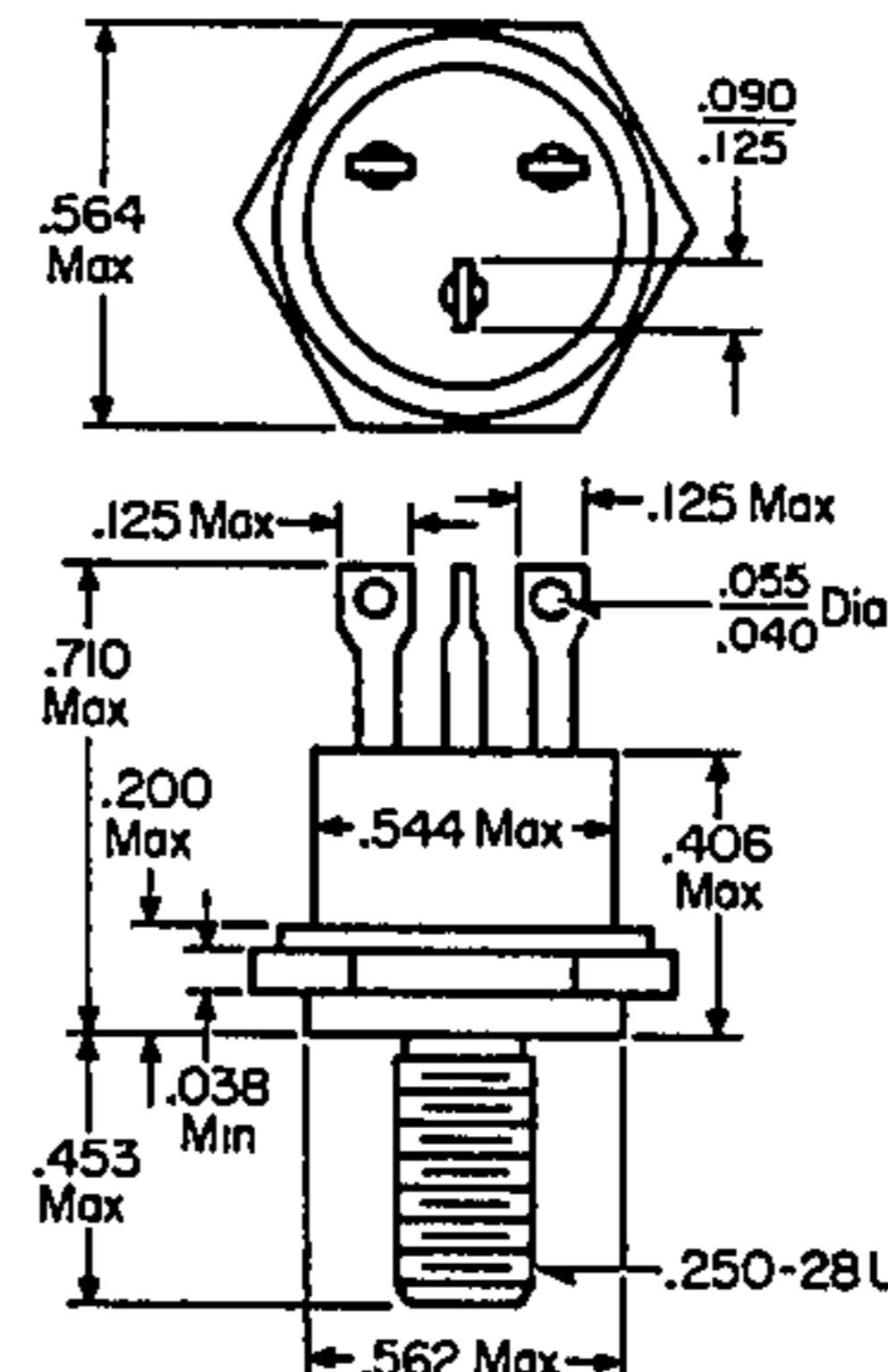
DATA SHEETS

A-44



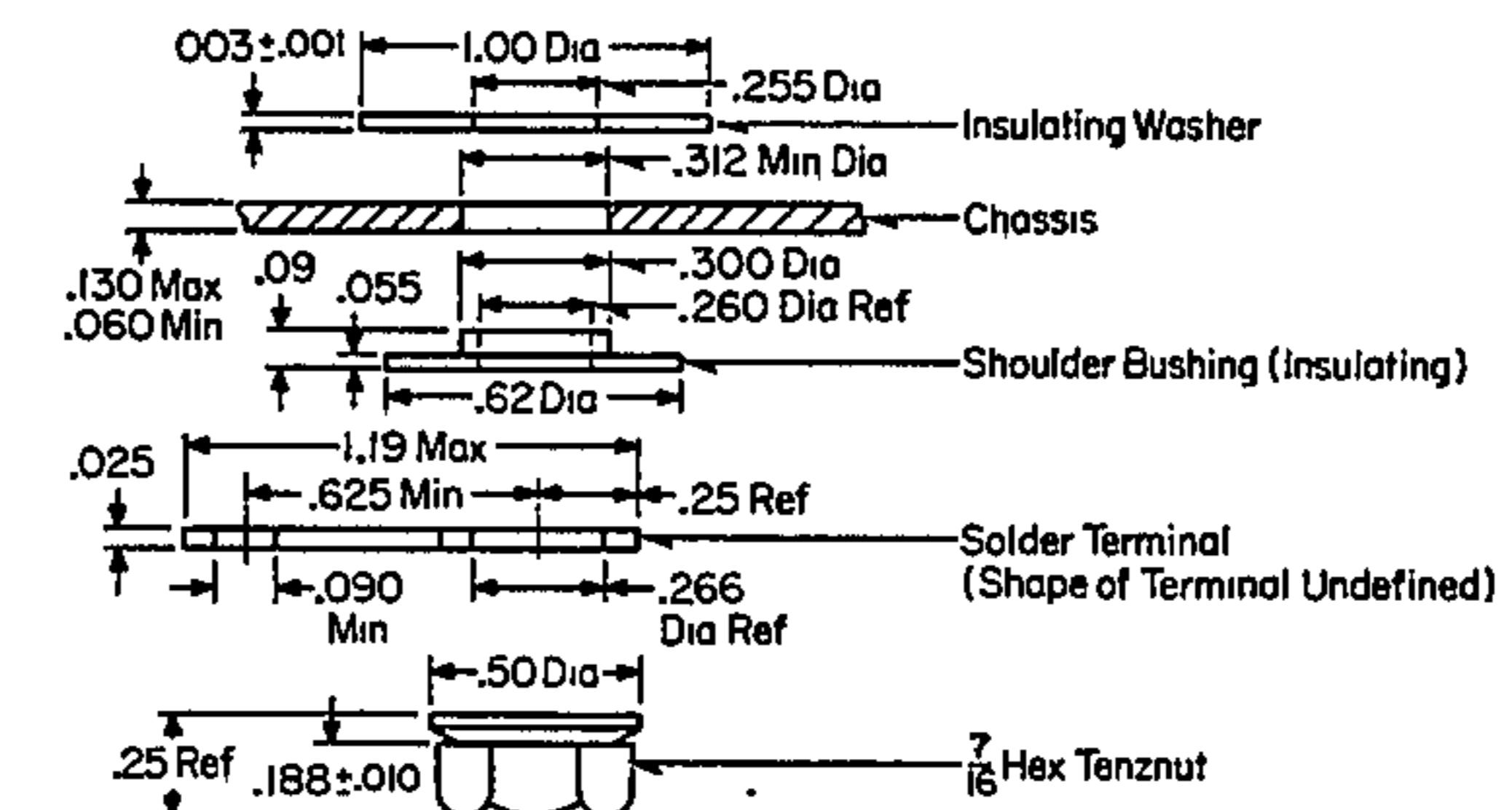
Westinghouse Electric Corporation
Semiconductor Division, Youngwood, Pa. 15697
Printed in USA

Dimensions in Inches



Angular Orientation and Shape
of Terminals not Defined

Recommended Stud Mounting
Torque Dry 20-30 In. Lb.
Lubricated 12-18 In. Lb.



Insulating hardware supplied, S#140A601G23.

April, 1967
Supersedes TD 54-672, pages 3 and 4, dated December, 1963
E, D, C/2116/DB; E, D, C/2117