

RCA TRANSISTOR MANUAL

In Common-Base Circuit

Small-Signal Forward-Current-Transfer-Ratio Cutoff

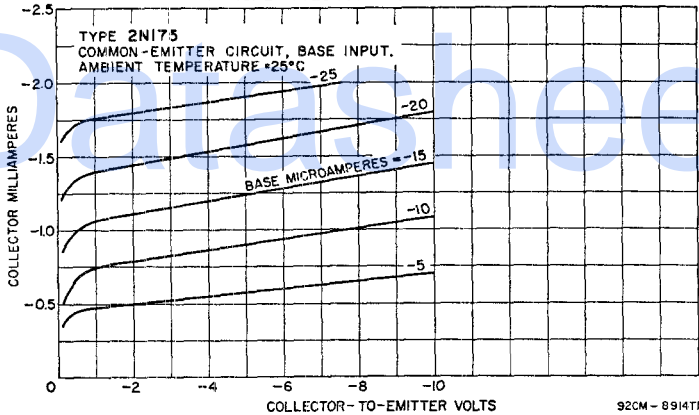
Frequency (with collector-to-base volts = -4 and collector ma = -0.5)..... 0.85 Mc

In Common-Emitter Circuit

Noise Figure (with collector-to-emitter volts = -4, collector ma = -0.5, and generator resistance = 1000 ohms)..... 6 max db

Matched-Impedance Power Gain (with collector-to-emitter volts = -4, collector ma = -0.5, input resistance = 2000 ohms, and output resistance = 70000 ohms)..... 48 db

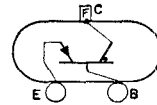
TYPICAL COLLECTOR CHARACTERISTICS



POWER TRANSISTOR

2N176

Germanium p-n-p type used in large-signal audio-frequency amplifier applications. It is used in class A power-output stages and class B push-pull amplifier stages in automobile radio receivers. Package is similar to



JEDEC No. TO-3; outline 23, Outlines Section.

MAXIMUM RATINGS

COLLECTOR-TO-BASE VOLTAGE (with emitter open).....	-40 max	volts
COLLECTOR CURRENT.....	-3 max	amperes
EMITTER CURRENT.....	3 max	amperes
TRANSISTOR DISSIPATION:		
At mounting-flange temperatures up to 80°C*.....	10 max	watts
MOUNTING-FLANGE-TEMPERATURE RANGE:		
Operating and storage.....	-65 to 90	°C

* This rating is reduced 1 watt/°C for mounting-flange temperatures above 80°C.

CHARACTERISTICS

Collector-to-Emitter Breakdown Voltage (with collector ma = -330 and base short-circuited to emitter).....	-30 min	volts
Collector-Cutoff Current (with collector-to-base volts = -30 and emitter current = 0).....	-3 max	ma
Emitter-Cutoff Current (with emitter-to-base volts = -10 and collector current = 0).....	-2 max	ma
Thermal Resistance:		
Junction-to-ambient.....	1	°C/watt