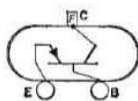


POWER TRANSISTOR



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

2N376

is similar to JEDEC No. TO-3; outline 23, Outlines Section. This type is identical with type 2N176 except for the following items:

CHARACTERISTICS

In Common-Emitter Circuit

Small-Signal Forward Current-Transfer Ratio at 1 kilocycle
(with collector-to-emitter volts = -2 and collector amperes = -0.7)

60

DC Forward Current-Transfer Ratio (with collector-to-emitter volts = -2 and collector amperes = -0.7)

78

Small-Signal Input Resistance

16

ohms

TYPICAL OPERATION IN CLASS A POWER-AMPLIFIER CIRCUIT

Mounting-flange temperature of 80°C

DC Collector Supply Voltage	-14.4	volts
DC Collector-to-Emitter Voltage	-13.2	volts
DC Base-to-Emitter Voltage	-0.3	volt
Peak Collector Current	-1.4	amperes
Zero-Signal DC Collector Current	-0.7	ampere
Emitter Resistance	1	ohm
Load Impedance	15	ohms
Signal Frequency	1	kc
Signal-Source Impedance	10	ohms
Power Gain	35	db
Total Harmonic Distortion	5	per cent
Zero-Signal Transistor Dissipation	9.25	watts
Maximum-Signal Power Output	4	watts

