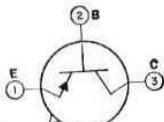


2N414

TRANSISTOR

Germanium p-n-p type used in medium-speed switching applications in data-processing equipment.
JEDEC No. TO-5; outline 6, Outlines Section.



MAXIMUM RATINGS

Collector-to-Base Voltage (with emitter open) -30 max volts
Collector-to-Emitter Voltage:
With base open -15 max volts
With base-to-emitter volts = 1 -20 max volts

Emitter-to-Base Voltage (with collector open) -20 max volts
Peak Collector Current -400 max ma
DC Collector Current -200 max ma
Transistor Dissipation:
At ambient temperatures up to 25°C 150 max mw
At ambient temperatures above 25°C See curve page 80
Ambient-Temperature Range:
Operating and storage -65 to 85 °C
Lead Temperature (for 10 seconds maximum) 240 max °C

CHARACTERISTICS

Collector-Cutoff Current (with collector-to-base volts = -12 and emitter current = 0) -5 max μa

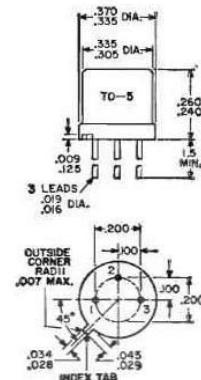
In Common-Base Circuit

Collector-to-Base Capacitance (with collector-to-base volts = -6 and emitter ma = 1) 11 pf
Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-base volts = -6 and emitter ma = 1) 8 Mc
Small-Signal Open-Circuit Reverse Voltage-Transfer Ratio (with collector-base volts = -6, emitter ma = 1, and frequency = 1 kilocycle) 0.0005

-30 max	volts
-15 max	volts
-20 max	volts
-20 max	volts
-400 max	ma
-200 max	ma
150 max	mw
See curve page 80	
-65 to 85	°C
240 max	°C

-5 max μa

80



-6-