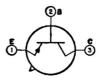
## **TRANSISTOR**

## 2N404 2N404A

Germanium p-n-p types used in medium-speed switching applications in data-processing equipment. These types also have wide application in other low-level, medium-speed "on-off" control circuits.



JEDEC No. TO-5 package; outline 6, Outlines Section.

## **MAXIMUM RATINGS**

Collector-to-Base Voltage (with emitter open)	<b>2N404</b> —25 max	2N404A —40 max	volts	
Collector-to-Emitter Voltage (with emitter-to-base volts = -1) Emitter-to-Base Voltage (with collector open) Collector Current Emitter Current Transistor Dissipation:	-24 max -12 max -100 max 100 max	-35 max -25 max -150 max 150 max	volts volts ma ma	
At ambient temperatures up to 25°C At ambient temperatures above 25°C Ambient-Temperature Range:	150 max See cu	150 max rve page 80	mw	
Operating Storage Lead Temperature (for 10 seconds maximum)	-65 to 85 -65 to 100 255 max	-65 to 100 -65 to 100 255 max	.c .c	
CHARACTERISTICS				
Collector-to-Emitter Saturation Voltage: With collector ma = $-12$ and base ma = $-0.4$ With collector ma = $-24$ and base ma = $-1$ . Base-to-Emitter Saturation Voltage:		-0.15 max -0.2 max	volt volt	
With collector ma = $-12$ and base ma = $-0.4$			volt volt	
and emitter current $= 0$ ) Stored Base Charge (with collector ma $= -10$ and	base ma $= -1$ )	-5 max -1400 max	μ <b>a</b> pcoul	
In Common-Base Circuit				
Collector-to-Base Capacitance (with collector-to-base volts = -6 and collector current = 0)		20 max	pf	
collector-to-base volts = -6 and collector ma =	= -1)	4 min	Mc	
In Common-Emitter Circuit				
DC Forward Current-Transfer Ratios				

DC Forward Current-Transfer Ratio:	
With collector-to-emitter volts $= -0.2$ and collector ma $= -24$	<b>24</b> min
With collector-to-emitter volts = $-0.15$ and collector ma = $-12$	$30 \min$