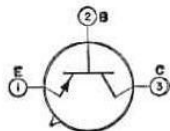


## TRANSISTOR

**3907/  
2N404**

Germanium p-n-p type used in critical switching applications in data-processing equipment. This premium type features excellent stability, reliability, and rugged construction. JEDEC No. TO-5 package;



outline 6, Outlines Section.

### MAXIMUM RATINGS

Collector-to-Base Voltage (with emitter open)	-25 max	volts
Collector-to-Emitter Voltage (with emitter-to-base volts = -1)	-24 max	volts
Emitter-to-Base Voltage (with collector open)	-12 max	volts
Collector Current	-200 max	ma
Emitter 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	-65 to 85	°C
Storage	-65 to 100	°C
Lead Temperature (for 10 seconds maximum)	235 max	°C

### CHARACTERISTICS

<b>Base-to-Emitter Saturation Voltage:</b>		
With collector ma = -12 and base ma = -0.4	-0.35 max	volt
With collector ma = -24 and base ma = -1	-0.4 max	volt
<b>Collector-to-Emitter Saturation Voltage:</b>		
With collector ma = -12 and base ma = -0.4	-0.15 max	volt
With collector ma = -24 and base ma = -1	-0.2 max	volt
<b>Collector-Cutoff Current (with collector-to-base volts = -12 and emitter current = 0)</b>	-5 max	µA
<b>Stored Base Charge (with collector ma = -10 and base ma = -1)</b>	1400 max	pcoul

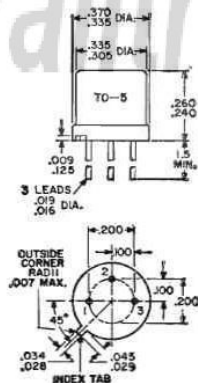
#### In Common-Base Circuit

<b>Small-Signal Forward-Current-Transfer-Ratio Cutoff Frequency</b> (with collector-to-base volts = -6 and collector ma = -1)	4 min	Mc
<b>Output Capacitance</b> (with collector-to-base volts = -6 and emitter current = 0)	20 max	pf
<b>Input Capacitance</b> (with emitter-to-base volts = -6 and collector current = 0)	20 max	pf

#### In Common-Emitter Circuit

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

<http://alltransistors.com>



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