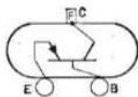


## POWER TRANSISTOR

# 2N307

Germanium p-n-p type used in large-signal audio-frequency amplifier applications such as class A and class B audio-frequency amplifiers, class A driver amplifiers, low-frequency oscillators, converters, inverters, power supplies, light flashers, and communications systems. Package is similar to JEDEC No. TO-3; outline 26, Outlines Section.



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### MAXIMUM RATINGS

Collector-to-Base Voltage (with emitter open)	-35 max	volts
Collector-to-Emitter Voltage	-35 max	volts
Collector Current	-1 max	ma
Emitter Current	1 max	ma
Transistor Dissipation:		
At mounting-flange temperatures up to 25°C	10 max	watts
At mounting-flange temperatures above 25°C	See curve	page 80
Mounting-Flange Temperature Range:	-65 to 75	°C
Operating and storage		

### CHARACTERISTICS

Collector-to-Emitter Saturation Voltage (with collector ma = -200 and base ma = -20)	-1 max	volt
Collector-Cutoff Current (with collector-to-emitter volts = -35 and external base-emitter resistance = 30 ohms)	-15 max	ma
Thermal Resistance:		
Junction-to-mounting flange	5	°C/watt

#### In Common-Emitter Circuit

DC Forward Current-Transfer Ratio (with collector-to-emitter volts = -1.5 and collector ma = -200)	20	
Small-Signal Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-emitter volts = -1.5 and collector ma = 200)	3	kc

