TRANSISTOR



Germanium n-p-n type used in low-noise small-signal audio-frequency amplifier applications. It is used in input stages of audio-frequency amplifiers operating from extremely small input signals, such

2N1010

as high-fidelity preamplifiers, tape-recorder amplifiers, microphone preamplifiers, and hearing aids, in which low noise is an important design consideration. JEDEC No. TO-1 package; outline 4, Outlines Section.

MAXIMUM RATINGS

Collector-to-Base Voltage (with emitter open)	10 max	volts
Emitter-to-Base Voltage (with collector open)	10 max	volts
Collector Current	2 max -2 max	ma
Emitter Current Transistor Dissipation:	-2 max	IIId
At ambient temperatures up to 55°C	20 max	mw
Ambient-Temperature Range: Operating	_65 to 55	°C
Storage		°C

CHARACTERISTICS		
Collector-Cutoff Current (with collector-to-base volts = 10		
and emitter current = 0)	10 max	. A
Emitter-Cutoff Current (with emitter-to-base volts = 2.5		
and collector current = 0)	6 max	-

Small-Signal	Forward-Current-Transfer-Ratio C	Cutoff	Frequency
(with colle	stor-to-base volte - 25 and collecte	or mp	- 03)

In	Common-Emitter	Circuit

Small-Signal Forward Current-Transfer Ratio at 1 kilocycle		
(with collector-to-emitter volts = 3.5 and collector ma = 0.3)	35	
Noise Figure (with generator resistance = 1000 ohms	125	200
and integrated noise bandwidth = 15 kilocycles)	5	db





