

MAXIMUM RATINGS

COLLECTOR-TO-BASE VOLTAGE (with emitter open).....	-15 max	volts
COLLECTOR-TO-EMITTER VOLTAGE (with external base-to-emitter resistance = 10 ohms or less).....	-15 max	volts
EMITTER-TO-BASE VOLTAGE (with collector open).....	-3.5 max	volts
COLLECTOR CURRENT.....	-50 max	ma
EMITTER CURRENT.....	50 max	ma
TRANSISTOR DISSIPATION: At ambient temperatures up to 25°C.....	150 max	mw
At case temperatures up to 25°C.....	300 max	mw
At ambient or case temperatures above 25°C.....	See curve page 68	
TEMPERATURE RANGE: Operating (junction) and storage.....	-65 to 100	°C
LEAD TEMPERATURE (for 10 seconds maximum).....	230 max	°C

CHARACTERISTICS

Base-to-Emitter Voltage (with collector ma = -10 and base ma = -0.4).....	-0.44 max	volt
Collector-to-Emitter Saturation Voltage (with collector ma = -10 and base ma = -0.4).....	-0.3 max	volt
Collector-Cutoff Current (with collector-to-base volts = -5 and emitter current = 0).....	-3 max	µa
Collector Transition Capacitance (with collector-to-base volts = -10, emitter current = 0, and frequency = 1 Mc).....	5	pf
Emitter Transition Capacitance (with emitter-to-base volts = -2, collector current = 0, and frequency = 1 Mc).....	3.5	pf

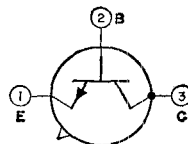
In Common-Emitter Circuit

Small-Signal Forward Current-Transfer Ratio (with collector-to-emitter volts = -5, collector ma = -10, and frequency = 100 Mc).....	3	
DC Forward Current-Transfer Ratio (with collector-to-emitter volts = -0.3 and collector ma = -10).....	25 min	

TRANSISTORS

2N706
2N706A

Silicon n-p-n types used in high-speed switching applications in data-processing equipment. JEDEC No. TO-18 package; outline 12, Outlines Section.



MAXIMUM RATINGS

	2N706	2N706A	
COLLECTOR-TO-BASE VOLTAGE (with emitter open).....	25 max	25 max	volts
COLLECTOR-TO-EMITTER VOLTAGE (with external base-to-emitter resistance = 10 ohms).....	20 max	20 max	volts
EMITTER-TO-BASE VOLTAGE (with collector open).....	3 max	5 max	volts
COLLECTOR CURRENT.....	—	50 max	ma
TRANSISTOR DISSIPATION: At ambient temperatures up to 25°C.....	0.3 max	0.3 max	watt
At ambient temperatures above 25°C.....	See curve page 68		
At case temperatures up to 25°C.....	1 max	1 max	watt
At case temperature of 100°C.....	0.5 max	1 max	watt
TEMPERATURE RANGE: Operating (junction) and storage.....		-65 to 175	°C

CHARACTERISTICS

Base-to-Emitter Saturation Voltage (with collector ma = 10 and base ma = 1).....	0.9 max	0.9 max	volt
Collector-to-Emitter Saturation Voltage (with collector ma = 10 and base ma = 1).....	0.6 max	0.6 max	volt
Collector-Cutoff Current (with collector-to-base volts = 15 and emitter current = 0).....	0.5 max	0.5 max	µa

In Common-Base Circuit

Collector-to-Base Capacitance (with collector-to-base volts = 10 and emitter current = 0).....	6 max	—	pf
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