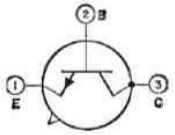
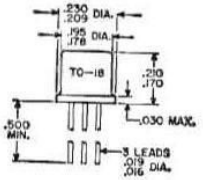
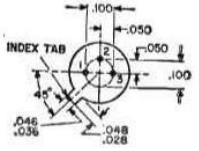
TRANSISTOR

2N955
2N955A

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







MAXIMUM RATINGS

	2N955	2N955A	
Collector-to-Base Voltage (with emitter open)	12 max	12 max	volts
Collector-to-Emitter Voltage (with base open)	8 max	8 max	volts
Emitter-to-Base Voltage (with collector open)	2 max	2 max	volts
Collector Current	100 max	150 max	ma
Transistor Dissipation:			
At ambient temperatures up to 25°C	150 max	150 max	mw
At ambient temperatures above 25°C	See curve page 80		
Ambient-Temperature Range:			
Operating and storage	—65 to 100		
Lead Temperature (for 10 seconds maximum)	230 max	230 max	°C

CHARACTERISTICS

Base-to-Emitter Saturation Voltage (with collector ma = 30 and base ma = 1)	0.3 to 0.6	0.3 to 0.6	volt
Collector-to-Emitter Saturation Voltage:			
With collector ma = 30 and base ma = 1	0.5 max	0.3 max	volt
With collector ma = 100 and base ma = 5	—	0.6 max	volt
Collector-Cutoff Current (with collector-to-base volts = 5 and emitter current = 0)	5 max	5 max	μa
Total Stored Charge (with collector ma = 30 and base ma = 1.5)	125 max	65 max	pcoul
In Common-Base Circuit			
Input Capacitance (with emitter-to-base volts = 0.5 and collector current = 0)	10 max	10 max	pf
Output Capacitance (with collector-to-base volts = 5 and emitter current = 0)	6 max	6 max	pf
In Common-Emitter Circuit			
Small-Signal Forward Current-Transfer Ratio (with collector-to-emitter volts = 5, collector ma = 20, and frequency = 100 Mc)	10	10	
DC Forward Current-Transfer Ratio:			
With collector-to-emitter volts = 0.5 and collector ma = 30	30 min	—	
With collector-to-emitter volts = 0.3 and collector ma = 30	—	30 min	