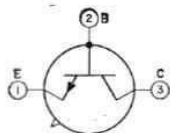


TRANSISTOR



Germanium n-p-n types used in medium-speed switching applications in data-processing equipment. JEDEC No. TO-5 package; outline 6, Outlines Section.

2N388
2N388A

MAXIMUM RATINGS

	2N388	2N388A	
Collector-to-Base Voltage (with emitter open) ..	25 max	40 max	volts
Collector-to-Emitter Voltage:			
With external base-to-emitter resistance			
= 10000 ohms	20 max	20 max	volts
With base-to-emitter volts = -0.5	—	40 max	volts
Emitter-to-Base Voltage (with collector open) ..	15 max	15 max	volts
Collector Current	200 max	200 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	-65 to 100	°C
Lead Temperature (for 10 seconds maximum)	235 max	235 max	°C

CHARACTERISTICS

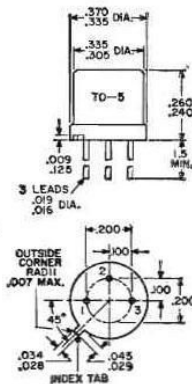
	2N388	2N388A	
Base-to-Emitter Voltage:			
With collector ma = 200 and base ma = 10	1.5 max	1.5 max	volts
With collector ma = 100 and base ma = 4	0.8 max	0.8 max	volt
Collector-Cutoff Current:			
With collector-to-base volts = 40 and emitter current = 0	—	40 max	µa
With collector-to-base volts = 25 and emitter current = 0	10 max	10 max	µa
With collector-to-base volts = 1 and emitter current = 0	5 max	5 max	µa

In Common-Emitter Circuit

Forward Current-Transfer Ratio:		
With collector-to-emitter volts = 0.75		
and collector ma = 200	30 min	30 min
With collector-to-emitter volts = 0.5		
and collector ma = 30	60 to 180	60 to 180

In Common-Base Circuit

Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-base volts = 6 and collector ma = 1)	5 min	5 min	Mc
Collector-to-Base Capacitance (with collector-to-base volts = 6 and collector ma = 1)	20 max	20 max	pf



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