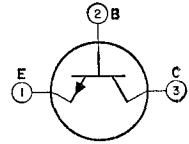


Turn-Off DC Base Current (I_{B2})	-200	ma
Switching Time:		
Delay time (t_d)	0.2	μ sec
Rise time (t_r)	1.8	μ sec
Storage time (t_s)	0.8	μ sec
Fall time (t_f)	1.4	μ sec

TRANSISTOR

2N1090

Germanium n-p-n type used in high-current, medium-speed switching circuits in electronic computers. JEDEC No. TO-5 package; outline 6, Outlines Section.



MAXIMUM RATINGS

COLLECTOR-TO-BASE VOLTAGE (with emitter open)	25 max	volts
COLLECTOR-TO-EMITTER VOLTAGE:		
With base-to-emitter volts = -1	18 max	volts
With base open	15 max	volts
EMITTER-TO-BASE VOLTAGE (with collector open)	20 max	volts
COLLECTOR CURRENT	400 max	ma
TRANSISTOR DISSIPATION:		
At ambient temperatures up to 25°C	120 max	mw
At ambient temperature of 55°C	35 max	mw
At ambient temperature of 71°C	10 max	mw
AMBIENT-TEMPERATURE RANGE:		
Operating and storage	-65 to 85	°C

CHARACTERISTICS

Base-to-Emitter Voltage:		
With collector ma = 20 and base ma = 0.67	0.4 max	volt
With collector ma = 200 and base ma = 10	1.5 max	volts
Collector-to-Emitter Saturation Voltage:		
With collector ma = 20 and base ma = 0.67	0.2 max	volt
With collector ma = 200 and base ma = 10	0.3 max	volt
Collector-Cutoff Current (with collector-to-base volts = 12 and emitter current = 0)	8 max	μ a
Stored Base Charge (with collector ma = 20 and base ma = 1.33)	1600 max	pcoul

In Common-Base Circuit

Collector-to-Base Capacitance (with collector-to-base volts = 6 and emitter current = 0)	25 max	pf
Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-base volts = 6 and emitter ma = -1)	5 min	Mc

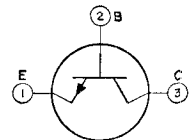
In Common-Emitter Circuit

Forward Current-Transfer Ratio:		
With collector-to-emitter volts = 0.2 and collector ma = 20	30 min	
With collector-to-emitter volts = 0.3 and collector ma = 200	20 min	

TRANSISTOR

2N1091

Germanium n-p-n type used in high-current, medium-speed switching circuits in electronic computers. JEDEC No. TO-5 package; outline 6, Outlines Section. Maximum ratings for this type are the same as for type 2N1090 except for the following items:



MAXIMUM RATINGS

COLLECTOR-TO-EMITTER VOLTAGE:		
With base-to-emitter volts = -1	15 max	volts
With base open	12 max	volts

CHARACTERISTICS

Base-to-Emitter Voltage:		
With collector ma = 20 and base ma = 0.5	0.35 max	volt
With collector ma = 200 and base ma = 6.7	1.1 max	volts