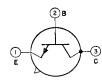
Collector-to-Emitter Saturation Voltage: With collector ma = 20 and base ma = 0.5. With collector ma = 200 and base ma = 6.7. Collector-Cutoff Current (with collector-to-base volts = 12 and emitter current = 0).	0.2 max 0.3 max 8 max	volt volt µa	
Stored Base Charge (with collector ma = 20 and base ma = 1)	$1000 \ max$	pcoul	
In Common-Base Circuit			
Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-base volts = 6 and emitter ma = -1)	10 min	Mc	
and emitter current = 0)	$25 \ max$	pf	
In Common-Emitter Circuit			
Forward Current-Transfer Ratio: With collector-to-emitter volts = 0.2 and collector ma = 20 With collector-to-emitter volts = 0.3 and collector ma = 200	40 min 30 min		



POWER TRANSISTOR

Silicon n-p-n type used in a wide variety of intermediate-power switching and amplifier applications in industrial and military equipment. It is used in power switching, dc-to-dc converter, inverter, chopper, solenoid and

2N1092

relay control circuits; in oscillator, regulator, and pulse-amplifier circuits; and as a class A or class B push-pull audio and servo amplifier. It features low saturation resistance, high current and power dissipation, high beta at high current, and excellent high-temperature performance. JEDEC No. TO-5 package; outline 6, Outlines Section.

MAXIMUM RATINGS

COLLECTOR-TO-BASE VOLTAGE (with emitter open)	60 max	volts	
With base short-circuited to emitter	60 max	volts	
With base open EMITTER-TO-BASE VOLTAGE (with collector open)	30 max 12 max	volts volts	
COLLECTOR CURRENT.	0.5 max	ampere	
EMITTER CURRENT	-0.5 max	ampere	
BASE CURRENTtransistor dissipation:	$0.2 \ max$	ampere	
At case temperatures up to 25°C	2 max	watts	
At case temperatures above 25°C	See curve page 68		
TEMPERATURE RANGE: Operating (junction) and storage	-65 to 175	°C	
operations, and because it is the second of	00 10 110	Ü	
CHARACTERISTICS			
Emitter-to-Base Voltage (with collector-to-emitter volts = 4			
and collector ma = 200). Collector-Cutoff Current (with collector-to-base volts = 60	-1.2	volts	
and emitter current = 0)	15	μa	
Emitter-Cutoff Current (with emitter-to-base volts = 12		,,,,	
and collector current = 0)	1	μa.	
With collector-to-emitter volts = 60 and base			
short-circuited to emitter	100	μ a	
Thermal Resistance:	100	μ a	
Junction-to-case	35	°C/watt	
Junction-to-ambient	225 max 8	°C/watt msec	
Thermal Time Constant	0	msec	
In Common-Base Circuit			
Small-Signal Forward-Current-Transfer-Ratio Cutoff Frequency (with collector-to-base volts = 28 and collector ma = 5)	1.5	Мс	
In Common-Emitter Circuit			
DC Forward Current-Transfer Ratio (with collector-to-emitter volts = 4			
and collector ma = 200)	35		