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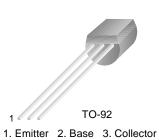
SEMICONDUCTOR®

2N6519

High Voltage Transistor

- Collector-Emitter Voltage: V_{CEO}= -300V
 Collector Dissipation: P_C (max)=625mW

PNP Epitaxial Silicon Transistor



1

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-300	V
V _{CEO}	Collector-Emitter Voltage	-300	V
V _{EBO}	Emitter-Base Voltage	-5	V
c	Collector Current	-500	mA
В	Base Current	-250	mA
°c	Collector Power Dissipation	625	W
	Derate above 25°C	5	mW/°C
Т _Ј	Junction Temperature	150	°C
Г _{STG}	Storage Temperature	-55 ~ 150	°C

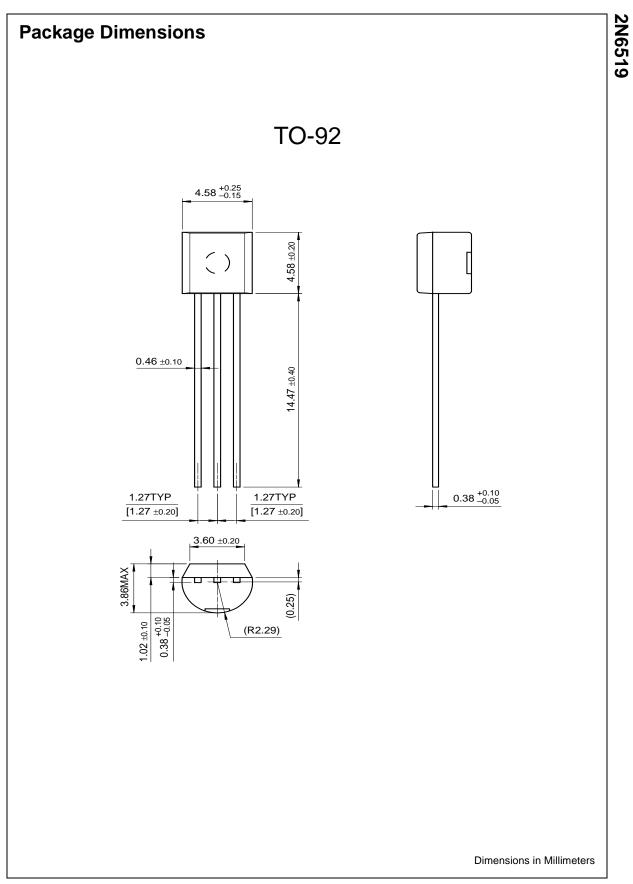
Refer to 2N6520 for graphs

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-300		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B =0	-300		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5		V
СВО	Collector Cut-off Current	V _{CB} = -200V, I _E =0		-50	nA
EBO	Emitter Cut-off Current	V _{EB} = -4V, I _C =0		-50	nA
⁾ FE	* DC Current Gain	V_{CE} = -10V, I _C = -1mA V_{CE} = -10V, I _C = -10mA V_{CE} = -10V, I _C = -30mA	30 45 45	270	
		V _{CE} = -10V, I _C = -50mA V _{CE} = -10V, I _C = -100mA	40 20	200	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA I_{C} = -50mA, I_{B} = -5mA		-0.30 -0.35 -0.50 -1	> > > >
/ _{BE} (sat)	Base-Emitter Saturation Voltage	I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA		-0.75 -0.85 -0.90	V V V
/ _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -10V, I _C = -100mA		-2	V
г	* Current Gain Bandwidth Product	V _{CE} = -20V, I _C = -10mA, f=20MHz	40	200	MHz
ob	Output Capacitance	V _{CB} = -20V, I _E =0, f=1MHz		6	pF
EB	Emitter-Base Capacitance	V _{EB} = -0.5V, I _C =0, f=1MHz		100	pF
ON	Turn On Time	V_{BE} (off)= -2V, V_{CC} = -100V I_{C} = -50mA, I_{B1} = -10mA		200	ns
OFF	Turn Off Time	V _{CC} = -100V, I _C = -50mA I _{B1} =I _{B2} =10mA		3.5	ns

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