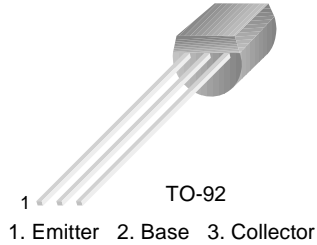


2N6518

2N6518

High Voltage Transistor

- Collector-Emitter Voltage: $V_{CE0} = -250V$
- Collector Dissipation: $P_C (max) = 625mW$
- Complement to 2N6515



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-250	V
V_{CEO}	Collector-Emitter Voltage	-250	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-500	mA
I_B	Base Current	-250	mA
P_C	Collector Power Dissipation	625	mW
	Derate above $25^\circ C$	5	mW/ $^\circ C$
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ C$

• 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	$I_C = -100\mu A, I_E = 0$	-250		V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -1mA, I_B = 0$	-250		V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu A, I_C = 0$	-5		V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -150V, I_E = 0$		-50	nA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -4V, I_C = 0$		-50	nA
h_{FE}	* DC Current Gain	$V_{CE} = -10V, I_C = -1mA$	35		
		$V_{CE} = -10V, I_C = -10mA$	50		
		$V_{CE} = -10V, I_C = -30mA$	50	300	
		$V_{CE} = -10V, I_C = -50mA$	45	220	
		$V_{CE} = -10V, I_C = -100mA$	25		
$V_{CE} (sat)$	Collector-Emitter Saturation Voltage	$I_C = -10mA, I_B = -1mA$		-0.30	V
		$I_C = -20mA, I_B = -2mA$		-0.35	V
		$I_C = -30mA, I_B = -3mA$		-0.50	V
		$I_C = -50mA, I_B = -5mA$		-1	V
$V_{BE} (sat)$	Base-Emitter Saturation Voltage	$I_C = -10mA, I_B = -1mA$		-0.75	V
		$I_C = -20mA, I_B = -2mA$		-0.85	V
		$I_C = -30mA, I_B = -3mA$		-0.90	V
$V_{BE} (on)$	Base-Emitter On Voltage	$V_{CE} = -10V, I_C = -100mA$		-2	V
f_T	* Current Gain Bandwidth Product	$V_{CE} = -20V, I_C = -10mA, f = 20MHz$	40	200	MHz
C_{ob}	Output Capacitance	$V_{CB} = -20V, I_E = 0, f = 1MHz$		6	pF
C_{EB}	Emitter-Base Capacitance	$V_{EB} = -0.5V, I_C = 0, f = 1MHz$		100	pF
t_{ON}	Turn On Time	$V_{BE} (off) = -2V, V_{CC} = -100V$ $I_C = -50mA, I_{B1} = -10mA$		200	ns
t_{OFF}	Turn Off Time	$V_{CC} = -100V, I_C = -50mA$ $I_{B1} = I_{B2} = 10mA$		3.5	ns

* Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$

Package Dimensions

2N6518

TO-92



Dimensions in Millimeters

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