

2N6518**PNP EPITAXIAL SILICON TRANSISTOR**

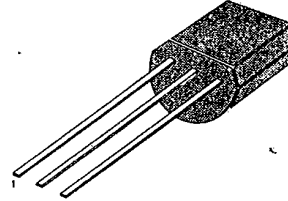
T-29-21

HIGH VOLTAGE TRANSISTOR**ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-250	V
Collector-Emitter Voltage	V_{CEO}	-250	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-500	mA
Base Current	I_B	-250	mA
Collector Dissipation	P_C	0.625	W
Derate above 25°C		5	mW/ $^\circ\text{C}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$

• Refer to 2N6520 for graphs

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1. Emitter 2. Base 3. Collector

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

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

* Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$



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