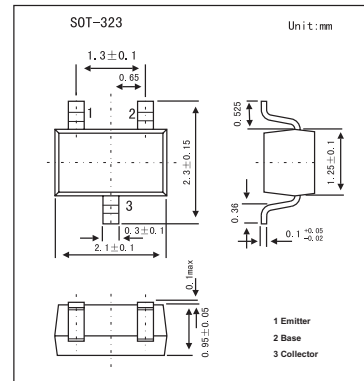


PNP General Purpose Transistor

2PB1219A

■ Features

- High current (max. 500 mA)
- Low voltage (max. 50 V)
- Low collector-emitter saturation voltage (max. 600 mV).



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	-60	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_C	-500	mA
Peak collector current	I_{CM}	-1	A
Peak base current	I_{BM}	-200	mA
Total power dissipation	P_{tot}	200	mW
Storage temperature	T_{stg}	-65 to +150	$^\circ\text{C}$
Junction temperature	T_j	150	$^\circ\text{C}$
Operating ambient temperature	T_{amb}	-65 to +150	$^\circ\text{C}$
Thermal resistance from junction to ambient	$R_{th\ j-a}$	625	K/W

2PB1219A

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cut-off current	ICBO	IE = 0; VCB = -20 V			-100	nA
		IE = 0; VCB = -20 V; Tj = 150 °C			-5	μA
Emitter cut-off current	IEBO	IC = 0; VEB = -4 V			-100	nA
DC current gain 2PB1219AQ 2PB1219AR 2PB1219AS	hFE	IC = -150 mA; VCE = -10 V; *	85 120 170	170 240 340		
Collector-emitter saturation voltage	VCE(sat)	IC = -300 mA; IB = -30 mA; *			-600	mV
Base-emitter saturation voltage	VBE(sat)	IC = -300 mA; IB = -30 mA; *			-1.5	V
Collector capacitance	Cc	IE = ie = 0; VCB = -10 V; f = 1 MHz			15	pF
Transition frequency 2PB1219AQ 2PB1219AR 2PB1219AS	fr	IC = 50 mA; VCE = -10 V; f = 100 MHz;*	100 120 140			MHz

* Pulse test: tp ≤ 300 μs; δ ≤ 0.02.

■ hFE Classification

TYPE	2PB1219AQ	2PB1219AR	2PB1219AS
Marking	DQ	DR	DS