

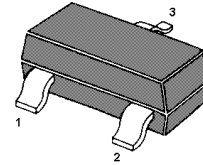
MMBTSB624LT1

PNP Silicon Epitaxial Planar Transistor

For use in small type equipments, especially recommended or hybrid circuit and other applications

The transistor is subdivided into five groups BV1, BV2, BV3, BV4 and BV5, according to its DC current gain.

SOT-23



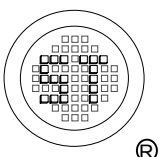
1.BASE 2.EMITTER 3.COLLECTOR

SOT-23 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	30	V
Collector Emitter Voltage	$-V_{CEO}$	25	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	700	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 22/08/2003

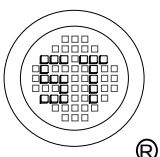
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Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE}=1\text{V}$, $-I_C=100\text{mA}$	BV1	h_{FE}	110	-	180	-
	BV2	h_{FE}	135	-	220	-
	BV3	h_{FE}	170	-	270	-
	BV4	h_{FE}	200	-	320	-
	BV5	h_{FE}	250	-	400	-
at $-V_{CE}=1\text{V}$, $-I_C=700\text{mA}$		h_{FE}^*	50	-	-	-
Collector Cutoff Current at $-V_{CB}=30\text{V}$		$-I_{CBO}$	-	-	100	nA
Emitter Cutoff Current at $-V_{EB}=5\text{V}$		$-I_{EBO}$	-	-	100	nA
Collector Saturation Voltage* at $-I_C=700\text{mA}$, $-I_B=70\text{mA}$		$-V_{CE(sat)}$	-	-	0.6	V
Base Emitter On Voltage* at $-V_{CE}=6\text{V}$, $-I_C=10\text{mA}$		$-V_{BE(on)}$	0.6	-	0.7	V
Output Capacitance at $-V_{CB}=6\text{V}$, $f=1\text{MHz}$		C_{ob}	-	17	-	pF
Transition Frequency at $-V_{CE}=6\text{V}$, $-I_C=10\text{mA}$		f_T	-	160	-	MHz

*Pulsed $PW \leq 350\mu\text{s}$, Duty Cycle $\leq 2\%$

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