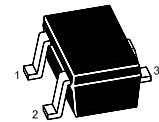


MMBTSA1576W

PNP Silicon Epitaxial Planar Transistor

The transistor is subdivided into three groups Q, R and S according to its DC current gain.



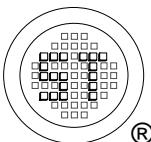
1.Base 2.Emitter 3.Collector
SOT-323 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	60	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	50	V
Emitter Base Voltage	$-V_{\text{EBO}}$	6	V
Collector Current	$-I_C$	150	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{\text{CE}} = 6 \text{ V}$, $-I_C = 1 \text{ mA}$	h_{FE}	120	-	270	-
	h_{FE}	180	-	390	-
	h_{FE}	270	-	560	-
Collector Base Cutoff Current at $-V_{\text{CB}} = 60 \text{ V}$	$-I_{\text{CBO}}$	-	-	0.1	μA
Emitter Base Cutoff Current at $-V_{\text{EB}} = 6 \text{ V}$	$-I_{\text{EBO}}$	-	-	0.1	μA
Collector Base Breakdown Voltage at $-I_C = 50 \mu\text{A}$	$-V_{(\text{BR})\text{CBO}}$	60	-	-	V
Collector Emitter Breakdown Voltage at $-I_C = 1 \text{ mA}$	$-V_{(\text{BR})\text{CEO}}$	50	-	-	V
Emitter Base Breakdown Voltage at $-I_E = 50 \mu\text{A}$	$-V_{(\text{BR})\text{EBO}}$	6	-	-	V
Collector Emitter Saturation Voltage at $-I_C = 50 \text{ mA}$, $-I_B = 5 \text{ mA}$	$-V_{\text{CE}(\text{sat})}$	-	-	0.5	V
Transition Frequency at $-V_{\text{CE}} = 12 \text{ V}$, $-I_E = 2 \text{ mA}$, $f = 30 \text{ MHz}$	f_T	-	140	-	MHz
Collector Output Capacitance at $-V_{\text{CB}} = 12 \text{ V}$, $f = 1 \text{ MHz}$	C_{ob}	-	-	5	pF



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