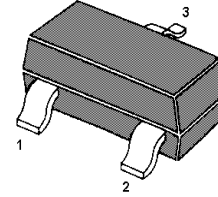


**MMBT6517**  
**NPN Silicon Epitaxial Planar Transistor**  
for switching and AF amplifier applications.

On special request, these transistors can be manufactured in different pin configurations.



1. Base 2. Emitter 3. Collector  
TO-236 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	350	V
Collector Emitter Voltage	$V_{CEO}$	350	V
Emitter Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	500	mA
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

## MMBT6517

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

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at $V_{CE} = 10\text{ V}$ , $I_C = 1\text{ mA}$	$h_{FE}$	20	-	-
at $V_{CE} = 10\text{ V}$ , $I_C = 10\text{ mA}$	$h_{FE}$	30	-	-
at $V_{CE} = 10\text{ V}$ , $I_C = 30\text{ mA}$	$h_{FE}$	30	200	-
at $V_{CE} = 10\text{ V}$ , $I_C = 50\text{ mA}$	$h_{FE}$	20	200	-
at $V_{CE} = 10\text{ V}$ , $I_C = 100\text{ mA}$	$h_{FE}$	15	-	-
Collector Base Cutoff Current at $V_{CB} = 250\text{ V}$	$I_{CBO}$	-	50	nA
Emitter Base Cutoff Current at $V_{EB} = 5\text{ V}$	$I_{EBO}$	-	50	nA
Collector Base Breakdown Voltage at $I_C = 100\text{ }\mu\text{A}$	$V_{(BR)CBO}$	350	-	V
Collector Emitter Breakdown Voltage at $I_C = 1\text{ mA}$	$V_{(BR)CEO}$	350	-	V
Emitter Base Breakdown Voltage at $I_E = 10\text{ }\mu\text{A}$	$V_{(BR)EBO}$	6	-	V
Collector Emitter Saturation Voltage				
at $I_C = 10\text{ mA}$ , $I_B = 1\text{ mA}$	$V_{CE(sat)}$	-	0.3	V
at $I_C = 20\text{ mA}$ , $I_B = 2\text{ mA}$	$V_{CE(sat)}$	-	0.35	V
at $I_C = 30\text{ mA}$ , $I_B = 3\text{ mA}$	$V_{CE(sat)}$	-	0.5	V
at $I_C = 50\text{ mA}$ , $I_B = 5\text{ mA}$	$V_{CE(sat)}$	-	1	V
Base Emitter Saturation Voltage				
at $I_C = 10\text{ mA}$ , $I_B = 1\text{ mA}$	$V_{BE(sat)}$	-	0.75	V
at $I_C = 20\text{ mA}$ , $I_B = 2\text{ mA}$	$V_{BE(sat)}$	-	0.85	V
at $I_C = 30\text{ mA}$ , $I_B = 3\text{ mA}$	$V_{BE(sat)}$	-	0.9	V
Base Emitter On Voltage at $V_{CE} = 10\text{ V}$ , $I_C = 100\text{ mA}$	$V_{BE(on)}$	-	2	V
Gain Bandwidth Product at $V_{CE} = 20\text{ V}$ , $I_C = 10\text{ mA}$ , $f = 20\text{ MHz}$	$f_T$	40	200	MHz
Collector Output Capacitance at $V_{CB} = 20\text{ V}$ , $f = 1\text{ MHz}$	$C_{ob}$	-	6	pF

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