



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

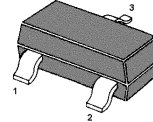
TEL: 852-2790 0314 FAX: 852-2790 0206

MMBTBC337-40

NPN Silicon Epitaxial Planar Transistor

for switching, AF driver and amplifier application,
especially suited for automatic insertion in thick
and thin-film circuits.

SOT-23

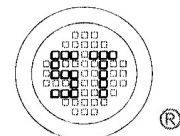


1.BASE 2.EMITTER 3.COLLECTOR

Marking Code: "G3"
SOT-23 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	50	V
Collector Emitter Voltage	V_{CEO}	45	V
Emitter Base Voltage	V_{EBO}	5	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_s	-65 to +150	$^\circ\text{C}$



SEMTECH

Dated : 20/10/2005



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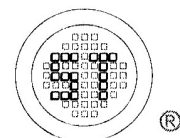
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Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=1\text{V}$, $I_C=100\text{mA}$ at $V_{CE}=1\text{V}$, $I_C=300\text{mA}$	h_{FE} h_{FE}	250 170	- -	630 -	- -
Collector Base Cutoff Current at $V_{CB}=50\text{V}$ at $V_{CB}=50\text{V}$, $T_{amb}=125\text{ }^{\circ}\text{C}$	I_{CBO} I_{CBO}	- -	- -	100 10	nA μA
Collector Emitter Breakdown Voltage at $I_C=10\text{mA}$	$V_{(BR)CEO}$	45	-	-	V
Collector Base Breakdown Voltage at $I_C=0.1\text{mA}$	$V_{(BR)CBO}$	50	-	-	V
Emitter Base Breakdown Voltage at $I_E=0.1\text{mA}$	$V_{(BR)EBO}$	5	-	-	V
Collector Saturation Voltage at $I_C=500\text{mA}$, $I_B=50\text{mA}$	V_{CEsat}	-	-	0.7	V
Base Emitter Voltage at $V_{CE}=1\text{V}$, $I_C=300\text{mA}$	V_{BE}	-	-	1.2	V
Gain Bandwidth Product at $V_{CE}=5\text{V}$, $I_C=10\text{mA}$, $f=50\text{MHz}$	f_T	-	100	-	MHz
Collector Base Capacitance at $V_{CB}=10\text{V}$, $f=1\text{MHz}$	C_{CBO}	-	12	-	pF



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