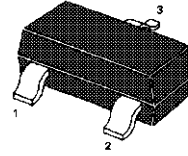


MMBT9015B / MMBT9015C / MMBT9015D

PNP Silicon Epitaxial Planar Transistors
for switching and AF amplifier applications.

As complementary types the NPN
transistor MMBT9014B, MMBT9014C and
MMBT9014D are recommended.

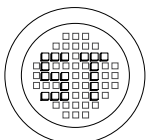


1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

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

Parameter	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	$-I_C$	100	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$



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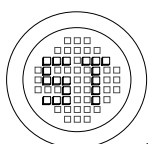
РАДИОТЕХ

Тел.: (495) 795-0805
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Веб: www.rct.ru

MMBT9015B / MMBT9015C / MMBT9015D

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

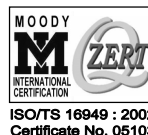
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=5\text{V}$, $I_C=2\text{mA}$	MMBT9015B h_{FE}	125	-	250	-
	MMBT9015C h_{FE}	220	-	475	-
	MMBT9015D h_{FE}	420	-	800	-
Collector Base Breakdown Voltage at $-I_C=100\mu\text{A}$	$-V_{(BR)CBO}$	50	-	-	V
Collector Emitter Breakdown Voltage at $-I_C=1\text{mA}$	$-V_{(BR)CEO}$	45	-	-	V
Emitter Base Breakdown Voltage at $-I_E=100\mu\text{A}$	$-V_{(BR)EBO}$	5	-	-	V
Collector Cutoff Current at $-V_{CB}=50\text{V}$	$-I_{CBO}$	-	-	50	nA
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	50	nA
Collector Saturation Voltage at $-I_C=100\text{mA}$, $-I_B=5\text{mA}$	$-V_{CE(sat)}$	-	-	650	mV
Gain Bandwidth Product at $-V_{CE}=5\text{V}$, $-I_C=10\text{mA}$	f_T	-	300	-	MHz
Output Capacitance at $-V_{CB}=10\text{V}$, $f=1\text{MHz}$	C_{OB}	-	3.5	6	pF
Noise Figure at $-V_{CE}=5\text{V}$, $-I_C=200\mu\text{A}$, $f=1\text{KHz}$, $R_G=2\text{K}\Omega$	NF	-	2	10	dB



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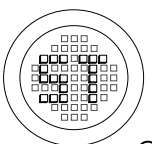
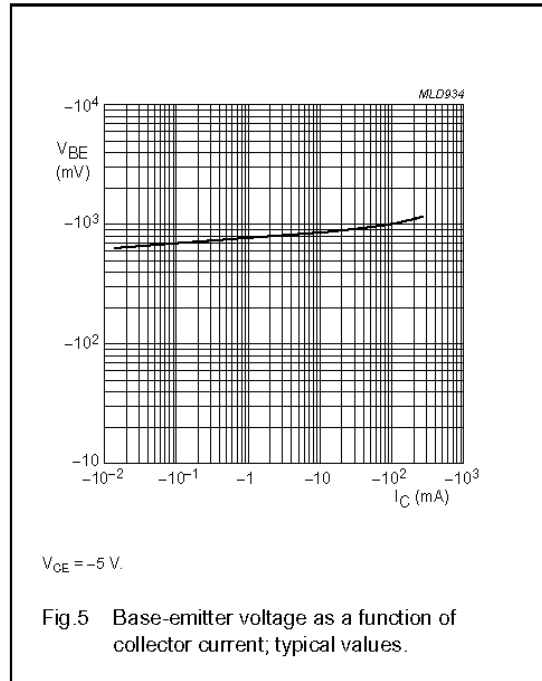
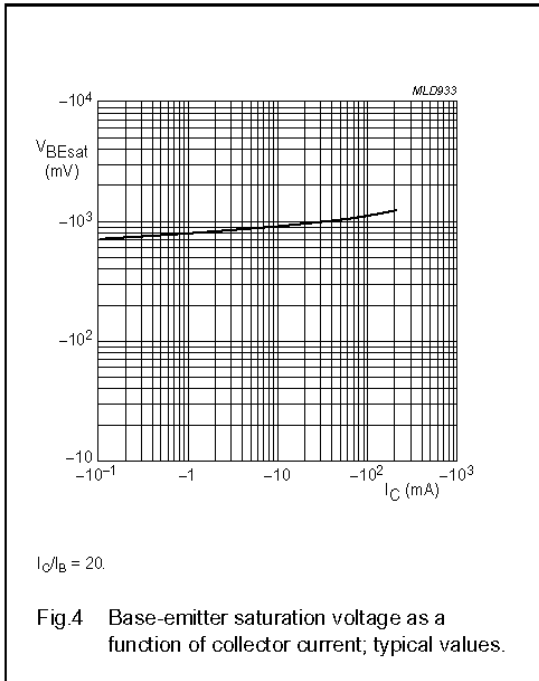
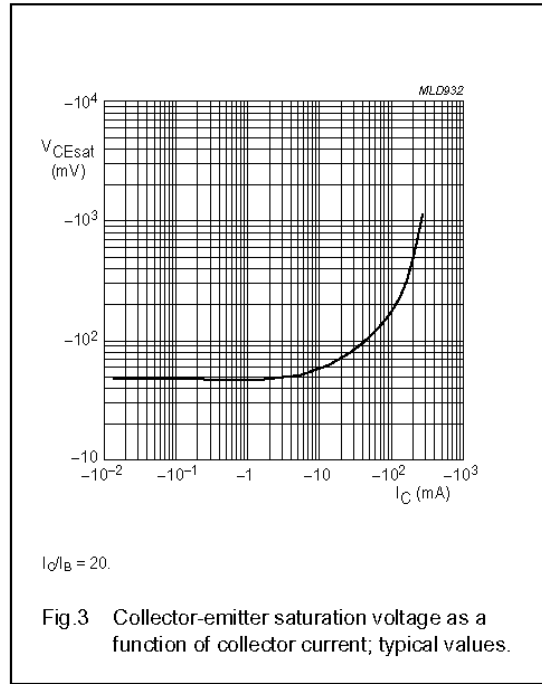
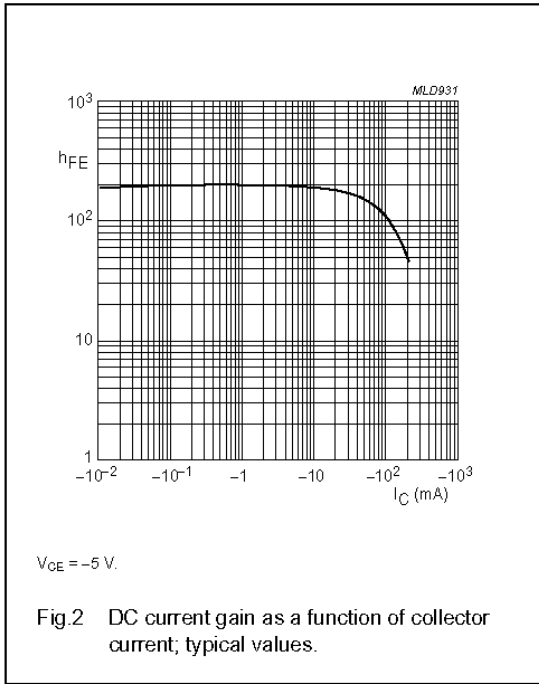
SEMTECH ELECTRONICS LTD.

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



Dated : 02/12/2005

MMBT9015B / MMBT9015C / MMBT9015D



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