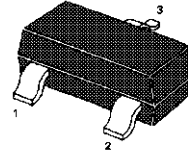


# MMBT9015B / MMBT9015C / MMBT9015D

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

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

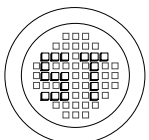


1. Base 2. Emitter 3. Collector

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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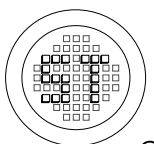
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# MMBT9015B / MMBT9015C / MMBT9015D

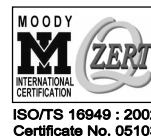
## Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

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

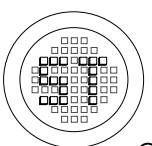
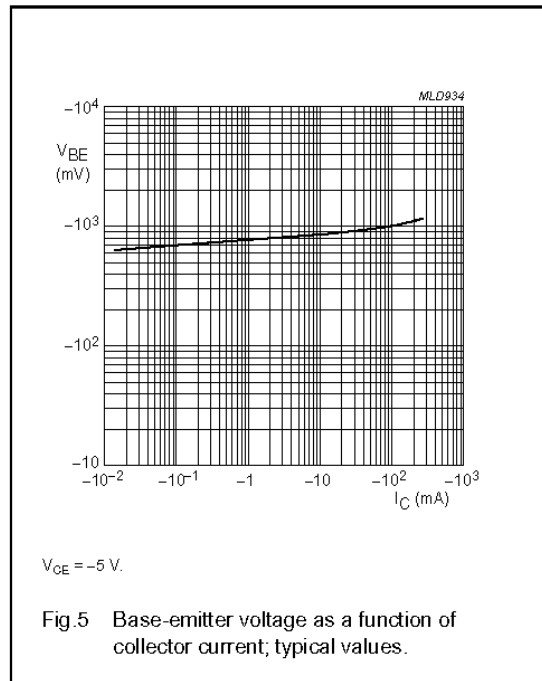
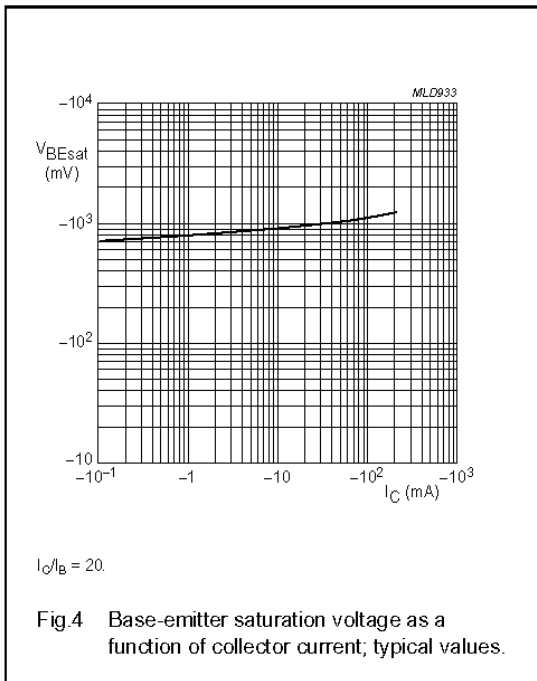
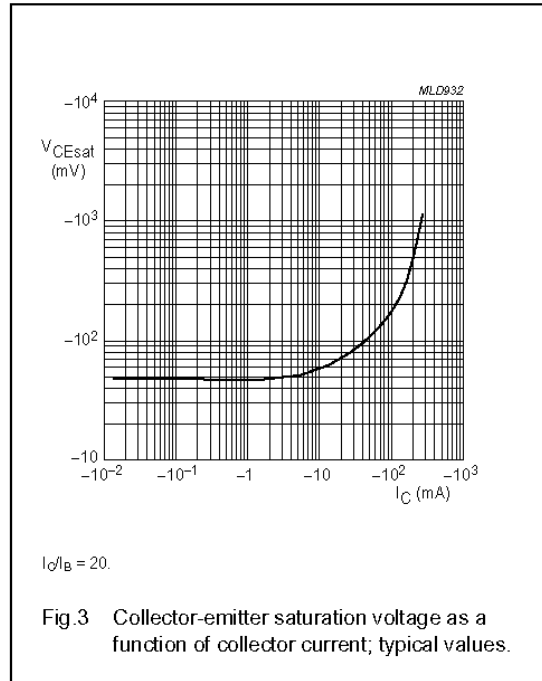
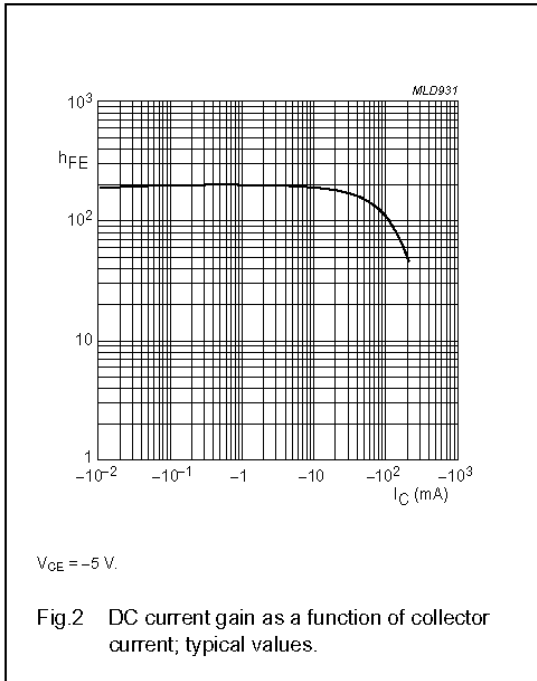


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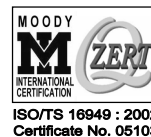
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# MMBT9015B / MMBT9015C / MMBT9015D



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