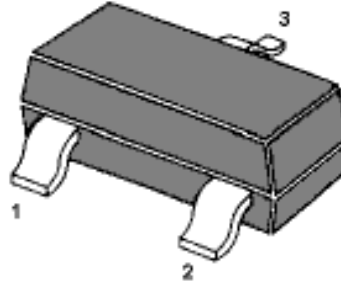


Kingtronics®**MMBT9012**PNP Silicon Epitaxial Planar
Transistors**For switching and amplifier applications**

As complementary types the NPN transistors
MMBT9013 is recommended.



1.Base 2.Emitter 3.Collector
SOT-23 Plastic Package

Absolute Maximum Ratings (Ta = 25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Collector Base Voltage	$-V_{CBO}$	40	V
Collector Emitter Voltage	$-V_{CEO}$	30	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	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at Ta = 25°C

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
DC Current Gain				
at $-V_{CE} = 1\text{ V}$, $-I_c = 50\text{ mA}$	Current Gain Group G	100	250	-
	H	160	400	-
at $-V_{CE} = 1\text{ V}$, $-I_c = 500\text{ mA}$		40	-	
Collector Base Cutoff Current				
at $-V_{CB} = 35\text{ V}$	$-I_{CBO}$	-	100	nA
Emitter Base Cutoff Current				
at $-V_{EB} = 5\text{ V}$	$-I_{EBO}$	-	100	nA
Collector Base Breakdown Voltage				
at $-I_c = 100\text{ }\mu\text{A}$	$-V_{(BR)CBO}$	40	-	V
Collector Emitter Breakdown Voltage				
at $-I_c = 1\text{ mA}$	$-V_{(BR)CEO}$	30	-	V
Emitter Base Breakdown Voltage				
at $-I_E = 100\text{ }\mu\text{A}$	$-V_{(BR)EBO}$	5	-	V
Collector Emitter Saturation Voltage				
at $-I_c = 500\text{ mA}$, $-I_B = 50\text{ mA}$	$-V_{CE(sat)}$	-	0.6	V
Base Emitter Saturation Voltage				
at $-I_c = 500\text{ mA}$, $-I_B = 50\text{ mA}$	$-V_{BE(sat)}$	-	1.2	V
Base Emitter Voltage				
at $-V_{CE} = 1\text{ V}$, $-I_c = 100\text{ mA}$	$-V_{BE}$	-	1	V
Gain Bandwidth Product				
at $-V_{CE} = 6\text{ V}$, $-I_c = 20\text{ mA}$	f_T	100	-	MHz

Kingtronics® International CompanyWebsite: www.kingtronics.comEmail: info@kingtronics.com

Tel: (852) 8106 7033

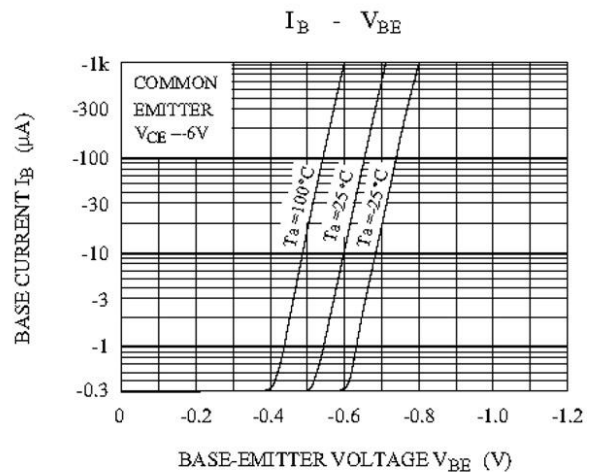
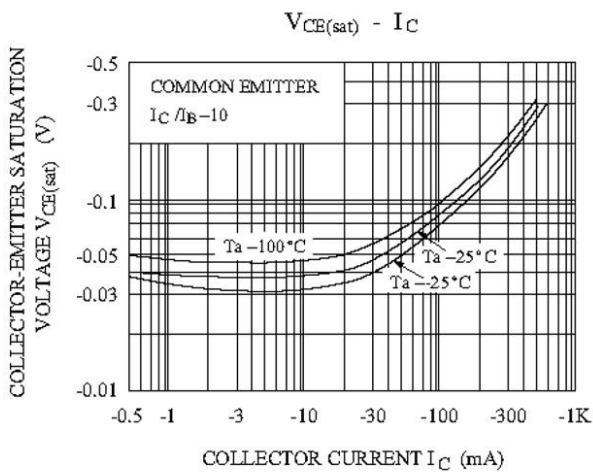
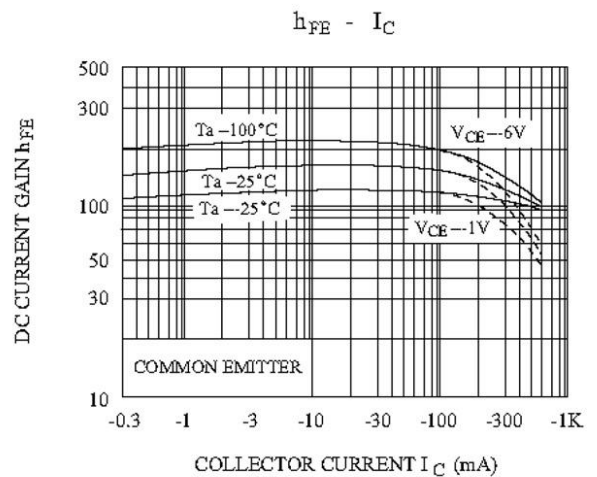
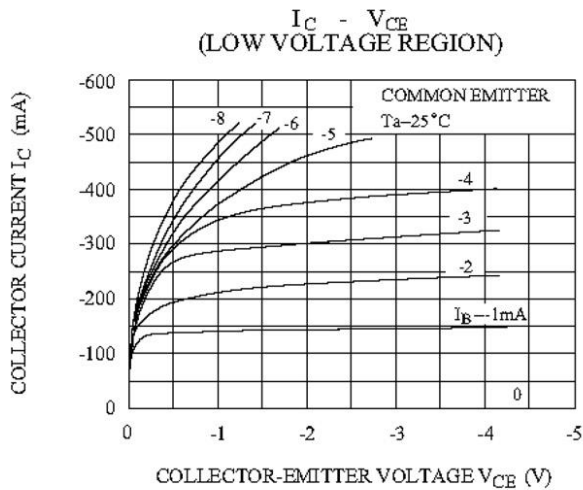
Fax: (852) 8106 7099

Kingtronics®

MMBT9012

PNP Silicon Epitaxial Planar Transistors

RATINGS AND CHARACTERISTIC CURVES MMBT9012



Note: Specifications are subject to change without notice.

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Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099