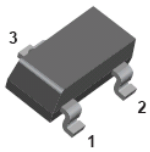
FMMT591

SOT-23 Bipolar Transistor(PNP)

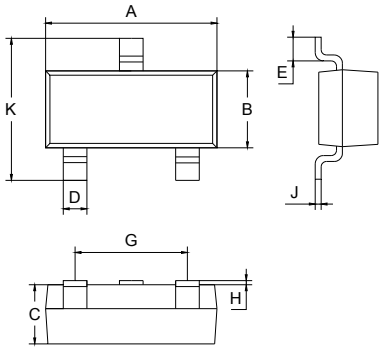


FEATURES

- High saturation voltage.
- Complementary To FMMT491.
- Excellent H_{FE} Linearity.

APPLICATIONS

- Switching appilication.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

ORDERING INFORMATION

Type No.	Marking	Package Code
FMMT591	591	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-1000	mA
P_C	Collector Dissipation	500	mW
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	℃

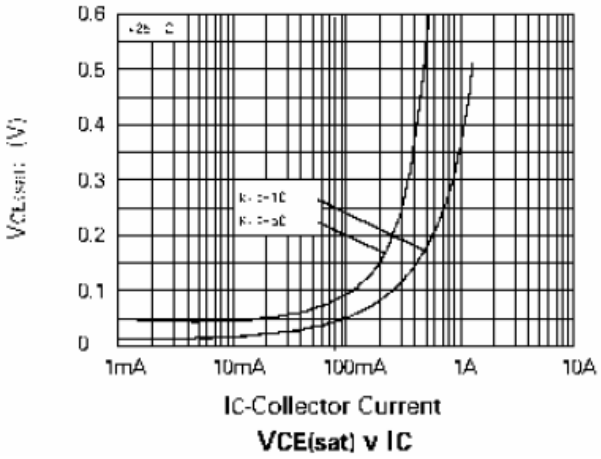
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-100μA,I_E=0	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA,I_B=0	-60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-100μA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-60V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V,I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-5V,I_C=-1mA V_{CE}=-5V,I_C=-500mA V_{CE}=-5V,I_C=-1A V_{CE}=-5V,I_C=-2A	100 100 80 15		300	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-500mA, I_B=-50mA I_C=-1A, I_B= -100mA			-0.3 -0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=-1A, I_B= -100mA			-1.2	V
Base-emitter voltage	V_{BE}	V_{CE}=-5V,I_C=-1A			-1	V
Transition frequency	f_T	V_{CE}=-10V, I_C= -50mA f=100MHz	150			MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz			10	pF

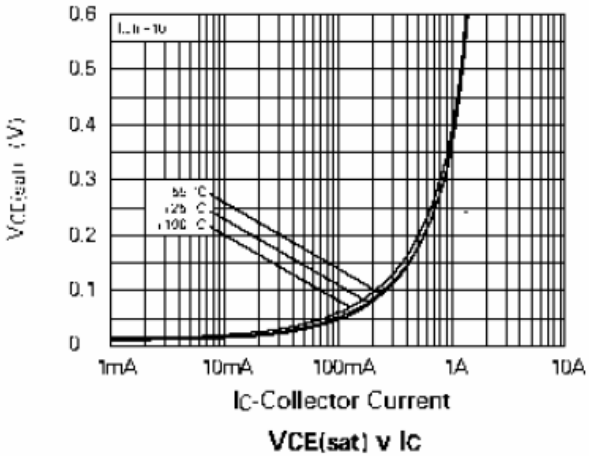
FMMT591

SOT-23 Bipolar Transistor(PNP)

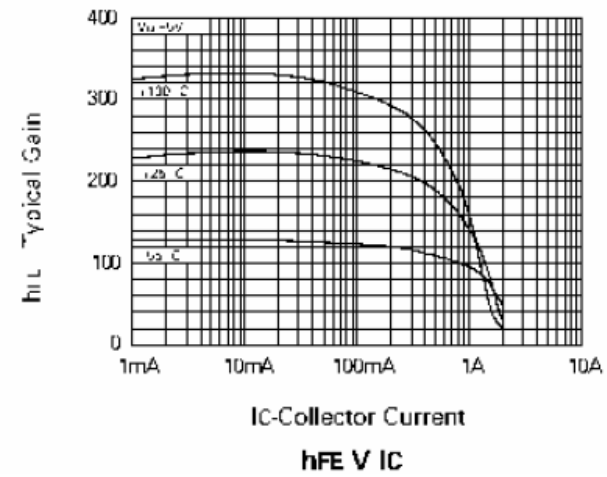
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified



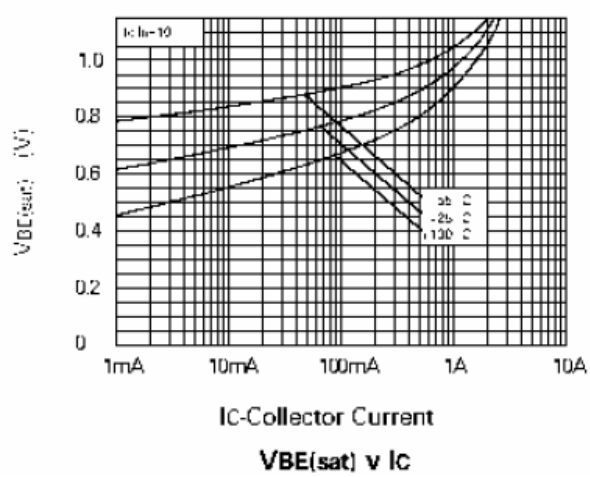
VCE(sat) v IC



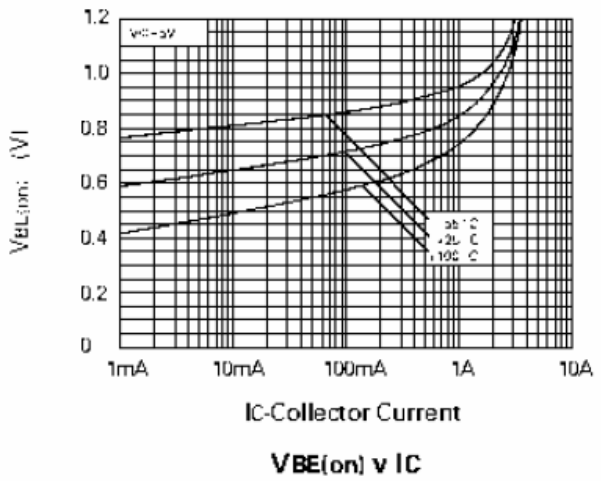
VCE(sat) v IC



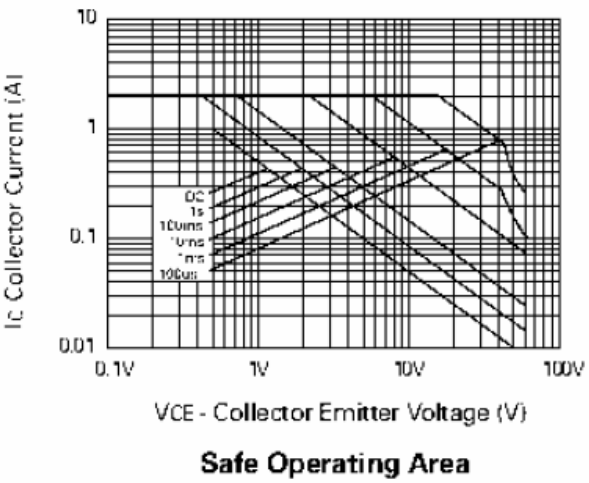
hFE V IC



VBE(sat) v IC



VBE(on) v IC



Safe Operating Area

Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220