

PNP Transistors

Features

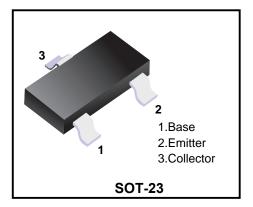
Low equivalent on-resistance

Marking Code			
FMMT591	591		

Maximum Ratings (Ta=25°C unless otherwise specified.)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current	-1	А
I _{CM}	Peak Pulse Current	-2	А
Pc	Collector Power Dissipation	250	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	500	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

FMMT591 SOT-23



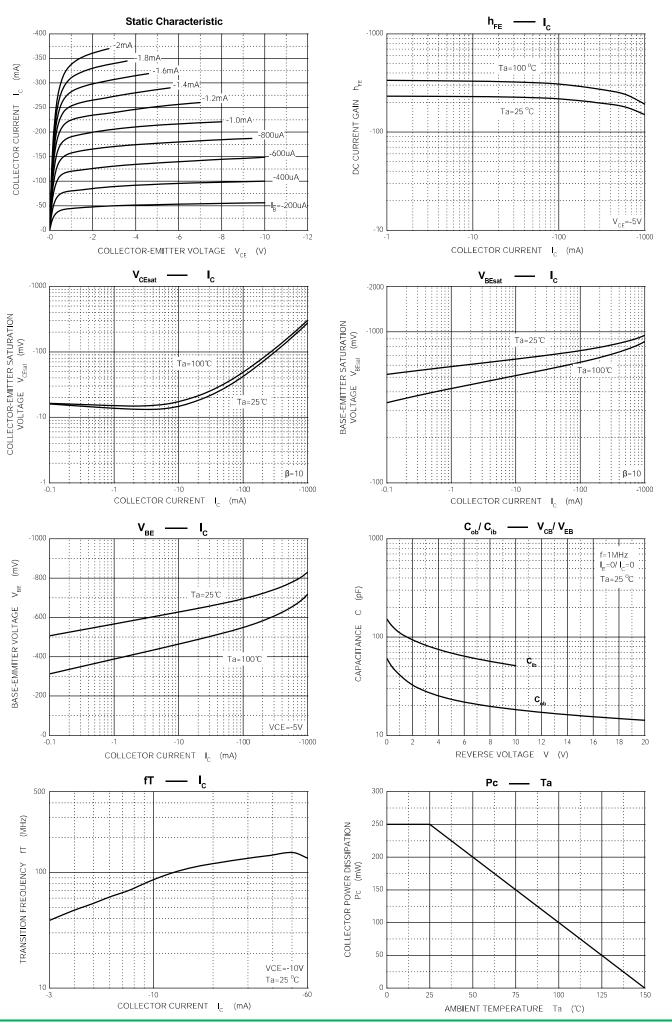
Electrical Characteristics (Ta=25°C unless otherwise specified.)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μΑ, I _E =0	-80			V
Collector-emitter breakdown voltage	V _{(BR)CEO} ¹	I _C =-10mA, I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μΑ, 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(1)}	V _{CE} =-5V, I _C =-1mA	100			
	h _{FE(2)} ¹	V _{CE} =-5V, I _C =-500mA	100		300	
	h _{FE(3)} ¹	V _{CE} =-5V, I _C =-1A	80			
	h _{FE(4)} ¹	V _{CE} =-5V, I _C =-2A	15			
Collector-emitter saturation voltage	V _{CE(sat)1} ¹	I _C =-500mA, I _B =-50mA			-0.3	V
	V _{CE(sat)2} ¹	I _C =-1A, I _B =-100mA			-0.6	V
Base-emitter saturation voltage	V _{BE(sat)} ¹	I _C =-1A, I _B =-100mA			-1.2	V
Base-emitter voltage V _{BE} ¹		V _{CE} =-5V, I _C =-1A			-1	V
Transition frequency f _T		V _{CE} =-10V,I _C =-50mA,,f=100MHz				MHz
Collector output capacitance C _{ob}		V _{CB} =-10V,f=1MHz			10	pF

¹Measured under pulsed conditions, Pulse width=300µs, Duty cycle≤2%.

Typical Characteristics

FMMT591 SOT-23



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Rev:BDI

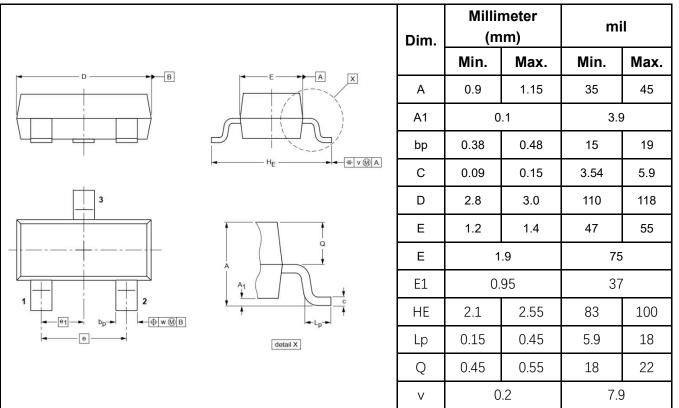


Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

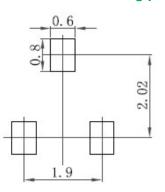


The recommended mounting pad size

W

0.1

4







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