

FMMT591 TRANSISTOR (PNP)

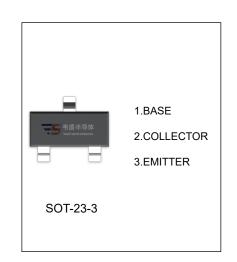
FEATURES

Low equivalent on-resistance

Marking:591

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

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	Α
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	℃



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, 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 =-100μA, I _C =0	-5			V
Collector cut-off current	Ісво	V _{CB} =-60V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V_{EB} =-4 V , I_{C} =0			-0.1	μA
	h _{FE(1)}	V_{CE} =-5V, I_{C} =-1mA	100			
DC assessment waits	h _{FE(2)} 1	V _{CE} =-5V, I _C =-500mA	100		300	
DC current gain	h _{FE(3)} 1	V _{CE} =-5V, I _C =-1A	80			
	h _{FE(4)} ¹	V _{CE} =-5V, I _C =-2A	15			
Collector emitter acturation valtage	V _{CE(sat)1} 1	I _C =-500mA, I _B =-50mA			-0.3	V
Collector-emitter saturation voltage	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	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHz			10	pF

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



