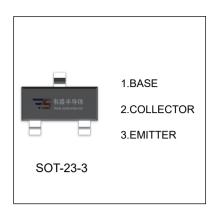


FMMT495 TRANSISTOR (NPN)

FEATURE

- Low V_{CE(sat)}
- h_{FE} characterised up to 1A for high current gain hold up
- For general amplification



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	170	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1	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

ELECTRICAL CHARACTERISTICS (T_a=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	170			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =10mA, I _B =0	150			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =150V, I _E =0			0.1	μA
Collector cut-off current	I _{CES}	V _{CE} =150V,V _{BE} =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			0.1	μA
	h _{FE(1)} *	V _{CE} =10V, I _C =1mA	100			
DC ourrent sein	h _{FE(2)} *	V _{CE} =10V, I _C =250mA	100		300	
DC current gain	h _{FE(3)} *	V _{CE} =10V, I _C =500mA	50			
	h _{FE(4)} *	V _{CE} =10V, I _C =1A	10			
Collector emitter acturation valtage	V _{CE(sat)(1)} *	I _C =250mA, I _B =25mA			0.2	V
Collector-emitter saturation voltage	V _{CE(sat)(2)} *	I _C =500mA, I _B =50mA			0.3	V
Base-emitter turn-on voltage	V _{BE(on)} *	V _{CE} =10V, I _C =500mA			1	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =500mA, I _B =50mA			1	V
Transition frequency	f _T	V _{CE} =10V,I _C =50mA,f=100MHz	100			MHz
Collector output capacitance	Cob	VcB=10V,IE=0,f=1MHz			10	pF

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.