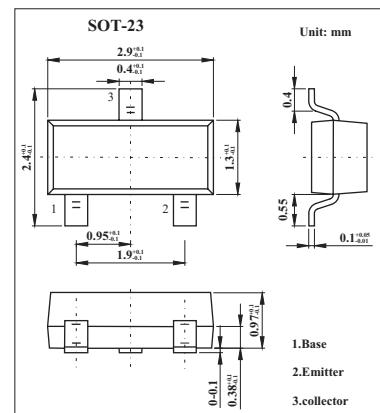


Medium Power Transistor

FMMT493

■ Features

- Medium power transistor.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	120	V
Collector-emitter voltage	V _{CEO}	100	V
Emitter-base voltage	V _{EBO}	5	V
Peak collector current	I _{CM}	2	A
Collector current	I _C	1	A
Base current	I _B	200	mA
Power dissipation	P _{tot}	500	mW
Operating and storage temperature range	T _{j,T_{stg}}	-55 to +150	°C

FMMT493

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=100µA	120			V
Collector-emitter breakdown voltage *	V(BR)CEO	Ic=10mA	100			V
Emitter-base breakdown voltage	V(BR)EBO	Ie=100µA	5			V
Collector cutoff current	Icbo	Vcb=100V			100	nA
Emitter cut-off current	Ieb0	Veb=4V			100	nA
Collector cutoff current	Ices	Vcb=100V			100	nA
Collector-emitter saturation voltage *	Vce(sat)	Ic=500mA, Ib=50mA Ic=1A, Ib=100mA			0.3 0.6	V
Base-emitter saturation voltage *	Vbe(sat)	Ic=1A, Ib=100mA			1.15	V
Base-emitter voltage *	Vbe(on)	Ic=1A, Vce=10V			1.0	V
Static Forward Current Transfer Ratio	hFE	Ic=1mA, Vce=10V*	100			
		Ic=250mA, Vce=10V*	100		300	
		Ic=500mA, Vce=10V*	60			
		Ic=1A, Vce=10V*	20			
Transition Frequency	fT	Ic=50mA, Vce=10V, f=100MHz	150			MHz
Collector-Base Breakdown Voltage	Cobo	Vcb=10V, f=1MHz			10	pF

* Pulse test: tp ≤ 300 µs; d ≤ 0.02.

■ Marking

Marking	493
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