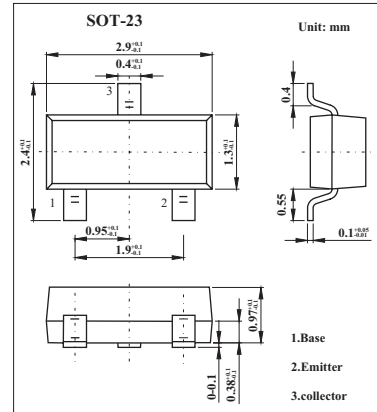


FMMT720

■ Features

- 625mW power dissipation.
- I_c CONT 2.5A.
- I_c up to 10A peak pulse current.
- Excellent h_{fe} characteristics up to 10A (pulsed).
- Extremely low saturation voltage e.g. 10mV typ..
- Exhibits extremely low equivalent on-resistance; $R_{CE(sat)}$.



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-40	V
Collector-emitter voltage	V_{CEO}	-40	V
Emitter-base voltage	V_{EBO}	-5	V
Peak collector current	I_{CM}	-4	A
Collector current	I_c	-1.5	A
Base current	I_B	-500	mA
Power dissipation	P_{tot}	625	mW
Operating and storage temperature range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

FMMT720

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=-100μA	-40	-95		V
Collector-emitter breakdown voltage *	V(BR)CEO	IC=-10mA	-40	-85		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100μA	-5	-8.8		V
Collector cutoff current	ICBO	VCB=-35V			-100	nA
Emitter cut-off current	IEBO	VEB=-4V			-100	nA
Collector-emitter saturation voltage *	VCE(sat)	IC=0.1A, IB=-10mA IC=1A, IB=-50mA IC=1.5A, IB=-100mA		-25 -150 -245	-40 -220 -330	mV
Base-emitter saturation voltage *	VBE(sat)	IC=-1.5A, IB=-75mA		0.89	-1	V
Base-emitter voltage *	VBE(ON)	IC=-1.5A, VCE=-2V		-0.80	-1	V
DC current gain *	hFE	IC=-10mA, VCE=-2V IC=0.1A, VCE=-2V IC=1A, VCE=-2V IC=1.5A, VCE=-2V IC=3A, VCE=-2V	300 300 180 60 12	480 450 290 130 22		
Current-gain-bandwidth product	fT	IC=-50mA, VCE=-10V, f=100MHz	150	190		MHz
Output capacitance	Cobo	VCB=-10V, f=1MHz		19	25	pF
Turn-on time	t(on)	VCC=-10V, IC=-1A		40		ns
Turn-off time	t(off)	IB1=-IB2=-20mA		435		ns

* Pulse test: tp ≤ 300 μs; d ≤ 0.02.

■ Marking

Marking	720
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