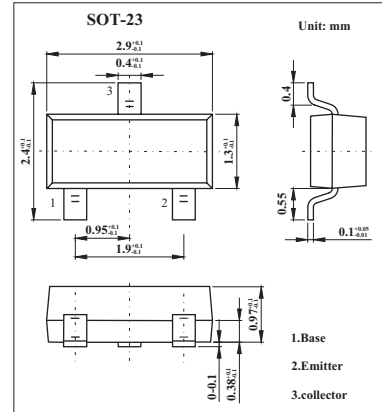


FMMT634

■ Features

- 625mW power dissipation
- Highest current capability SOT23 darlington
- Very high hFE



■ 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 _{EB0}	12	V
Collector current	I _C	900	mA
Peak collector current	I _{CM}	5	A
Power dissipation	P _{tot}	625	mW
Operating and storage temperature range	T _j , T _{stg}	-55 to +150	°C

FMMT634

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=100μA	120	170		V
Collector-emitter breakdown voltage *	V(BR)CEO	Ic=10mA	100	115		V
Emitter-base breakdown voltage	V(BR)EBO	Ie=100μA	12	16		V
Collector cutoff current	IcBO	Vcb=80V			10	nA
Collector Emitter Cut-Off Current	IcES	Vce=80V			100	nA
Emitter cut-off current	IeBO	Veb=7V			10	nA
Collector-emitter saturation voltage *	Vce(sat)	Ic=100mA, Ib=1mA Ic=250mA, Ib=1mA Ic=500mA, Ib=5mA Ic=900mA, Ib=5mA Ic=900mA, Ib=5mA Ic=1A, Ib=5mA		0.67 0.72 0.75 0.82 0.68 0.85	0.75 0.80 0.85 0.93	V
Base-emitter saturation voltage *	Vbe(sat)	Ic=1A, Ib=5mA		1.5	1.65	V
Base-emitter voltage *	Vbe(ON)	Ic=1A, Vce=5V		1.33	1.5	V
Static Forward Current Transfer Ratio*	hFE	Ic=10mA, Vce=5V		50K		
		Ic=100mA, Vce=5V	20K	60K		
		Ic=1A, Vce=5V	15K	14K		
		Ic=2A, Vce=5V	5K	600		
		Ic=5A, Vce=5V		24K		
		Ic=1A, Vce=2V				
Current-gain-bandwidth product	ft	Ic=50mA, Vce=10V, f=100MHz		140		MHz
Output capacitance	Cobo	Vcb=10V, f=1MHz		9	20	pF
Switching times	ton	Ic=500mA, Vcc=20V		290		ns
	toff	Ib=±1mA		2.4		μs

* Pulse test: tp = 300 μs; d ≤ 0.02.

■ Marking

Marking	634
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