

SMD Type

Transistors

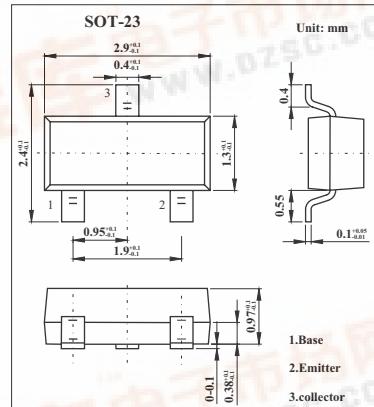
Medium Power Transistor

FMMT449



■ Features

- Low equivalent on-resistance.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	50	V
Collector-emitter voltage	V _{C EO}	30	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,Tstg}	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =1mA, I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cutoff current	I _{CBO}	V _{CB} =40V, I _E =0		0.1		μA
		V _{CB} =40V, T _{amb} =100°C		10		μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0		0.1		μA
Collector-emitter saturation voltage *	V _{C E(sat)}	I _C =1A, I _B =100mA I _C =2A, I _B =200mA		0.5 1.0		V
Base-emitter saturation voltage *	V _{BE(sat)}	I _C =1A, I _B =100mA		1.25		V
Base-emitter voltage *	V _{BE(ON)}	I _C =1A, V _{C E} =2V		1.0		V
Static Forward Current Transfer Ratio	h _{FE}	I _C =50mA, V _{C E} =2V*	70			
		I _C =500mA, V _{C E} =2V*	100		300	
		I _C =1A, V _{C E} =2V*	80			
		I _C =2A, V _{C E} =2V*	40			
Current-gain-bandwidth product	f _T	I _C =50mA, V _{C E} =10V, f=100MHz	150			MHz
Output capacitance	C _{obo}	V _{CB} =10V, f=1MHz			15	pF

* Pulse width=300μs. Duty cycle ≤2%

■ Marking

Marking	449
---------	-----