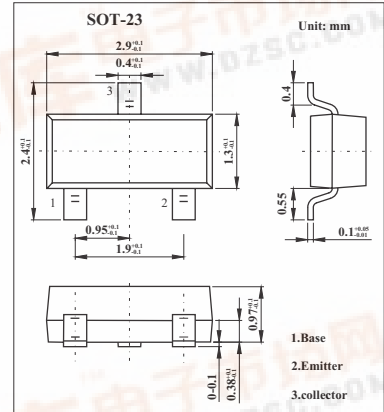


SMD Type Transistors

Medium Power Transistor
FM51

Features

- 60 Volt V_{CEO}.
- 1 Amp continuous current.



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-80	V
Collector-emitter voltage	V _{CEO}	-60	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 +200	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA	-80			V
Collector-emitter breakdown voltage *	V _{(BR)CEO}	I _C =-10mA	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA	-5			V
Collector cutoff current	I _{CBO}	V _{CB} =-60V			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V			0.1	μA
Collector-emitter saturation voltage *	V _{CE(sat)}	I _C =-150mA, I _B =-15mA			-0.35	V
Base-emitter saturation voltage *	V _{BE(sat)}	I _C =-150mA, I _B =-15mA			-1.1	V
Static Forward Current Transfer Ratio *	h _{FE}	I _C =-150mA, V _{CE} =-10V	50		150	
		I _C =-1A, V _{CE} =-10V	10			
Current-gain-bandwidth product	f _T	I _C =-50mA, V _{CE} =-10V, f=100MHz	150			MHz
Output capacitance	C _{obo}	V _{CB} =-10V, f=1MHz			25	pF

* Pulse test: t_p ≤ 300 μs; d ≤ 0.02.

Marking

Marking	551
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