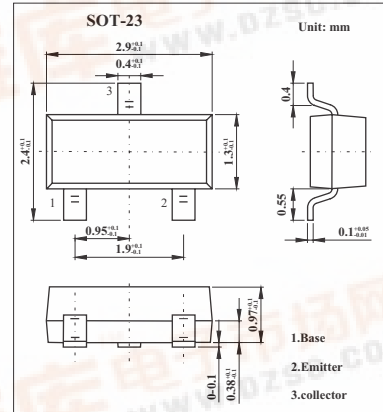


SMD Type Transistors

Small Signal Transistor
FM5087

Features

- Small signal transistor.



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EB0}	-3	V
Collector current	I _c	-100	mA
Power dissipation	P _{tot}	330	mW
Operating and storage temperature range	T _j , T _{stg}	-55 to +150	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I _{cBO}	V _{CB} =-10V, I _E =0			-10	nA
		V _{CB} =-35V, I _E =0			-50	µA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V, I _C =0			-50	nA
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-10mA, I _B =-1mA			-300	mV
Base-emitter on voltage	V _{BE(on)}	I _C =-1mA, V _{CE} =-5V			-850	mV
DC current gain	h _{FE}	I _C =-100mA, V _{CE} =-5V	250		800	
Current-gain-bandwidth product	f _T	I _C =-500mA, V _{CE} =-5V f=20MHz	40			MHz
Small signal current transfer	h _{fe}	I _C =-1mA, V _{CE} =-5V f=1KHz	250		900	
Noise figure	NF	I _C =200µA, V _{CE} =-5V, R _g =2KΩ f=30Hz to 15KHz at 2dB points			2	dB
Output capacitance	C _{obo}	V _{CB} =-5V, f=140MHz, I _E =0			4	pF

Marking

Marking	2m
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