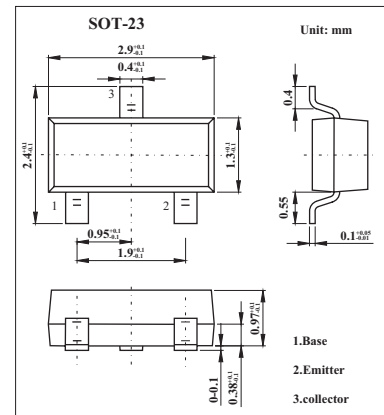


Small Signal Transistor

FMMT5087

■ Features

- Small signal transistor.

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	-50	V
Collector-emitter voltage	V_{CE0}	-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	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB}=-10V, I_E=0$ $V_{CB}=-35V, I_E=0$			-10 -50	nA μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-3V, I_C=0$			-50	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-300	mV
Base-emitter on voltage	$V_{BE(on)}$	$I_C=-1\text{mA}, V_{CE}=-5V$			-850	mV
DC current gain	h_{FE}	$I_C=-100\text{mA}, V_{CE}=-5V$	250		800	
Current-gain-bandwidth product	f_T	$I_C=-500\text{mA}, V_{CE}=-5V, f=20\text{MHz}$	40			MHz
Small signal current transfer	h_{fe}	$I_C=-1\text{mA}, V_{CE}=-5V, f=1\text{KHz}$	250		900	
Noise figure	NF	$I_C=200\mu\text{A}, V_{CE}=-5V, R_g=2\text{K}\Omega$ $f=30\text{Hz to } 15\text{KHz at } 2\text{dB points}$			2	dB
Output capacitance	C_{obo}	$V_{CB}=-5V, f=140\text{MHz}, I_E=0$			4	pF

■ Marking

Marking	2m
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