

MMBT3906M PNP General Purpose Transistor

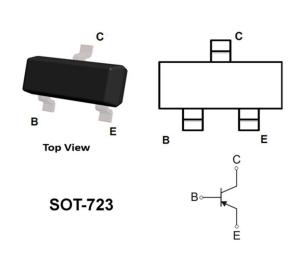
General description

• PNP General Purpose Transistor

FEATURES

- SOT-723 General Purpose Transistors.
- VCEO -40V
- -200mA Ic
- PC 100mW
- Complementary to MMBT3904MSmall Outline Surface Mount Package.
- RoHS Compliant / Green EMC.

Туре	MMBT3904M
Marking	3N



Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	Vсво	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	VEBO	5	V
Collector Current -Continuous	Ic	-0.2	А
Power Dissipation	Pc	0.1	W
Thermal Resistance from Junction to Ambient	$R_{ heta JA}$	1250	°C/W
Junction Temperature	TJ	150	$^{\circ}$
Storage Temperature	Тѕтс	- 55∼+150	°C



ELECTRICAL CHARACTERISTICS @ 25°C Unless Otherwise Specified

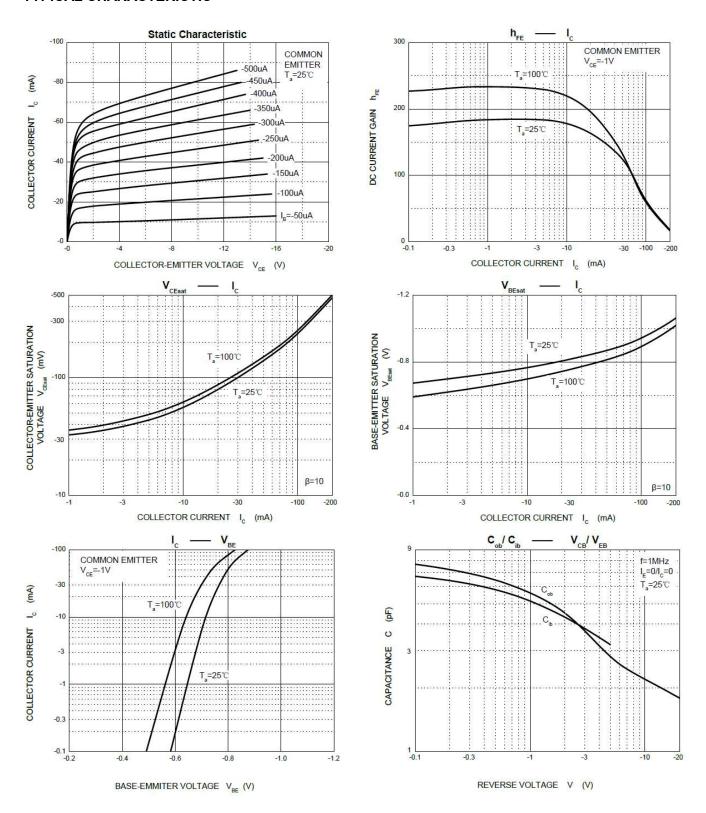
Parameter	Symbol	Conditions	Min	Тур	Max	Units
Collector-base breakdown voltage	V(BR)CBO	Ic=10μA,Iε=0	-40			V
Collector-emitter breakdown voltage	V(BR)CEO	Ic=1mA,I _B =0	-40			V
Emitter-base breakdown voltage	V(BR)EBO	I _E =10μA,I _C =0	-5			V
Collector cut-off current	ICEX	Vc=-30V,VeB(off)=-3V			-50	nA
Emitter cut-off current	ІЕВО	V _{EB} =-5V,I _C =0			-100	nA
DC current gain	hfe	Vc=1V,Ic=-0.1mA	40			
		Vc=-1V,lc=-1mA	70			
		Vc=-1V,lc=-10mA	100		300	
		Vc=-1V,Ic=-50mA	60			
Collector-emitter saturation voltage	VCE(sat)	Ic=-10mA,I _B =-1mA			-0.2	V
		Ic=-50mA,I _B =-5mA			-0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	Ic=-10mA,I _B =-1mA	-0.65		-0.85	V
		Ic=-50mA,I _B =-5mA			-0.95	V
Transition frequency	fτ	V _{CE} =-20V,I _C =-10mA,f=100MHz	300			MHz
Output capacitance	Сор	V _{CB} =-5V,I _E =0,f=1MHz			4	pF
Input capacitance	Cib	VEC =-0.5V,Ic=0,f=1MHz			8	pF
Noise figure	NF	V_{CE} =-5V,I $_{C}$ =-0.1mA,f=1MHz,R $_{S}$ =1k $_{\Omega}$			5	dB



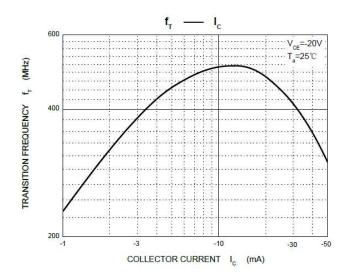
Parameter	Symbol	Conditions	Min	Тур	Max	Units
Delay time	t d				35	ns
Rise time	t _r	Vcc=-3V,V _{BE(off)} =-0.5V, Ic=- 10mA,I _{B1} =-1mA			25	ns
Storage time	ts	Vcc=-3V,lc=-10mA l _{B1} =l _{B2} =-			225	ns
Fall time	t _f	1mA			75	ns

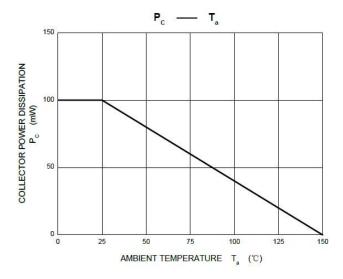


TYPICAL CHARACTERICTIC

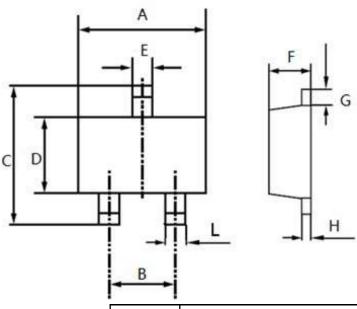








PACKAGE DIMENSIONS



Symbol	Dimensions In Millimeters			
Symbol	Min	Max		
Α	1.100	1.300		
В	0.8ty	0.8typ		
С	1.100	1.300		
D	0.700	0.900		
E	0.200	0.300		
F	0.400	0.500		
G	0.150	0.250		
Н	0.060	0.160		
L	0.150	0.250		



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