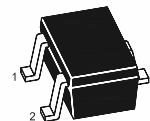


MMBTSC4226W

查询"MMBTSC4226W"供应商

NPN Silicon Epitaxial Planar Transistor

For VHF, UHF low noise amplifier



1.Base 2.Emitter 3.Collector
SOT-323 Plastic Package

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

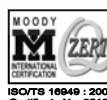
Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	20	V
Collector Emitter Voltage	V_{CEO}	12	V
Emitter Base Voltage	V_{EBO}	3	V
Collector Current	I_C	100	mA
Power Dissipation	P_{tot}	150	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

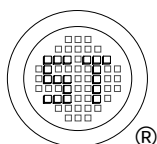
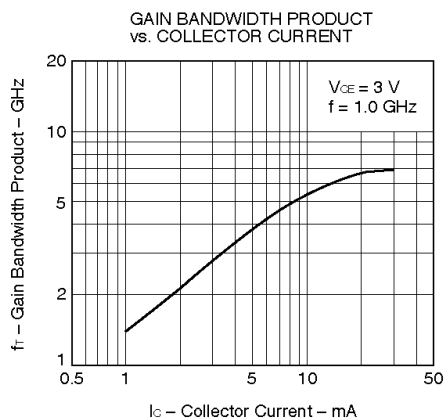
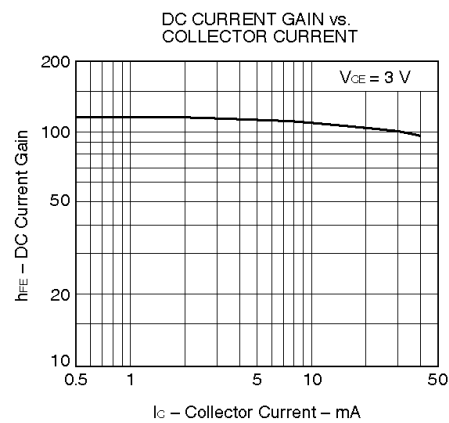
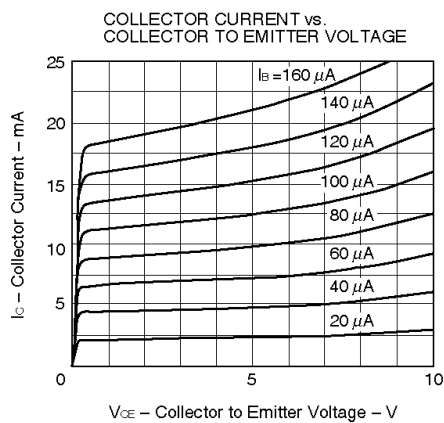
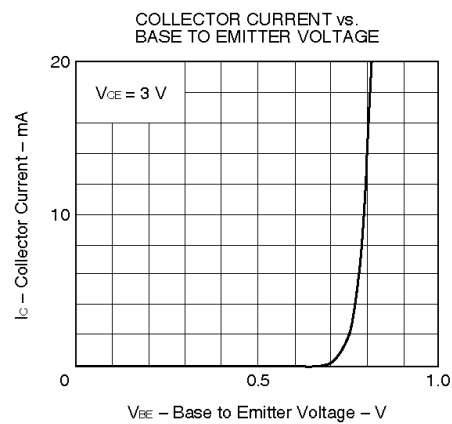
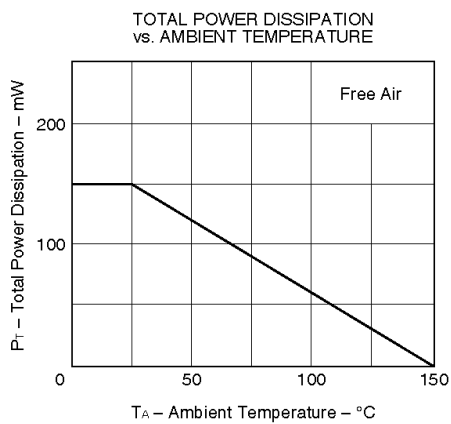
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 3\text{ V}$, $I_C = 7\text{ mA}$ Current Gain Group Q R S	h_{FE}	40	80	-
	h_{FE}	70	140	-
	h_{FE}	125	250	-
Collector Base Cutoff Current at $V_{CB} = 10\text{ V}$	I_{CBO}	-	1	μA
Emitter Base Cutoff Current at $V_{EB} = 1\text{ V}$	I_{EBO}	-	1	μA
Collector Base Breakdown Voltage at $I_C = 10\text{ }\mu\text{A}$	$V_{(BR)CBO}$	20	-	V
Collector Emitter Breakdown Voltage at $I_C = 1\text{ mA}$	$V_{(BR)CEO}$	12	-	V
Emitter Base Breakdown Voltage at $I_E = 10\text{ }\mu\text{A}$	$V_{(BR)EBO}$	3	-	V
Collector Emitter Saturation Voltage at $I_C = 10\text{ mA}$, $I_B = 5\text{ mA}$	$V_{CE(sat)}$	-	0.5	V
Transition Frequency at $V_{CE} = 3\text{ V}$, $I_C = 7\text{ mA}$	f_T	3	-	GHz
Feed Back Capacitance at $V_{CB} = 3\text{ V}$, $f = 1\text{ MHz}$	C_{re}	-	1.5	pF
Noise Figure at $V_{CE} = 3\text{ V}$, $I_C = 7\text{ mA}$, $f = 1\text{ GHz}$	NF	-	2.5	dB

SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 13/06/2009



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