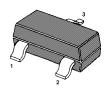
MMBTSC3356

NPN Silicon Epitaxial Planar Transistor

for microwave low noise amplifier at VHF, UHF and CATV band

The transistor is subdivided into three groups, Q, R and S, according to its DC current gain.



^{1.} Base 2. Emitter 3. Collector SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °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	Ι _C	100	mA	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{Stg}	- 65 to + 150	°C	

Characteristics ($T_a = 25 \circ C$)

Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at V_{CE} = 10 V, I_C = 20 mA Current Gain Group	Q R S	h _{FE} h _{FE} h _{FE}	50 80 125	- - -	100 160 250	- - -
Collector Cutoff Current at $V_{CB} = 10 V$		I _{CBO}	-	-	1	μA
Emitter Cutoff Current at $V_{EB} = 1 V$		I _{EBO}	-	-	1	μA
Gain Bandwidth Product at V_{CE} = 10 V, I _C = 20 mA		f⊤	-	7	-	GHz
Feed-Back Capacitance at V_{CB} = 10 V, f = 1 MHz		C _{re} ¹⁾	-	0.55	1	pF
Noise Figure at V_{CE} = 10 V, I _C = 7 mA, f = 1 GHz		NF	-	1.1	2	dB

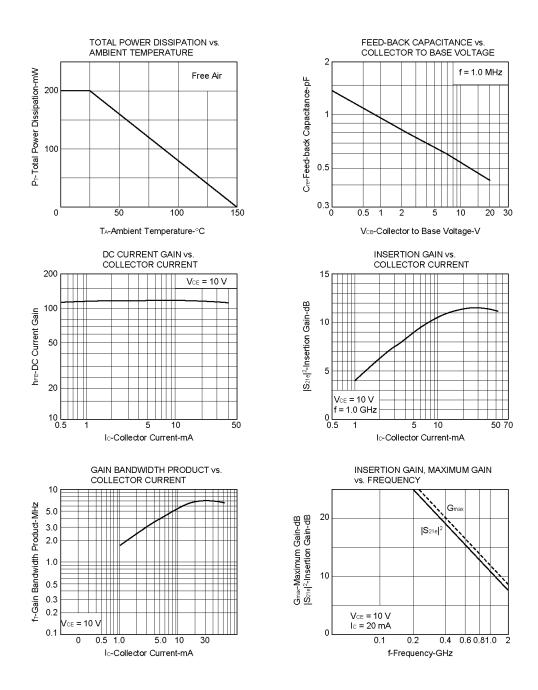
¹⁾ The emitter terminal and the case shall be connected to the guard terminal of the three-terminal capacitance bridge.

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