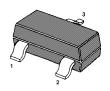
## MMBTSC3356

#### **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.



<sup>1.</sup> Base 2. Emitter 3. Collector SOT-23 Plastic Package

#### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit	
Collector Base Voltage	V <sub>CBO</sub>	20	V	
Collector Emitter Voltage	V <sub>CEO</sub>	12	V	
Emitter Base Voltage	V <sub>EBO</sub>	3	V	
Collector Current	Ι <sub>C</sub>	100	mA	
Power Dissipation	P <sub>tot</sub>	200	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T <sub>Stg</sub>	- 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 <sub>FE</sub> h <sub>FE</sub> h <sub>FE</sub>	50 80 125	- - -	100 160 250	- - -
Collector Cutoff Current at $V_{CB} = 10 V$		I <sub>CBO</sub>	-	-	1	μA
Emitter Cutoff Current at $V_{EB} = 1 V$		I <sub>EBO</sub>	-	-	1	μA
Gain Bandwidth Product at $V_{CE}$ = 10 V, I <sub>C</sub> = 20 mA		f⊤	-	7	-	GHz
Feed-Back Capacitance at $V_{CB}$ = 10 V, f = 1 MHz		C <sub>re</sub> <sup>1)</sup>	-	0.55	1	pF
Noise Figure at $V_{CE}$ = 10 V, I <sub>C</sub> = 7 mA, f = 1 GHz		NF	-	1.1	2	dB

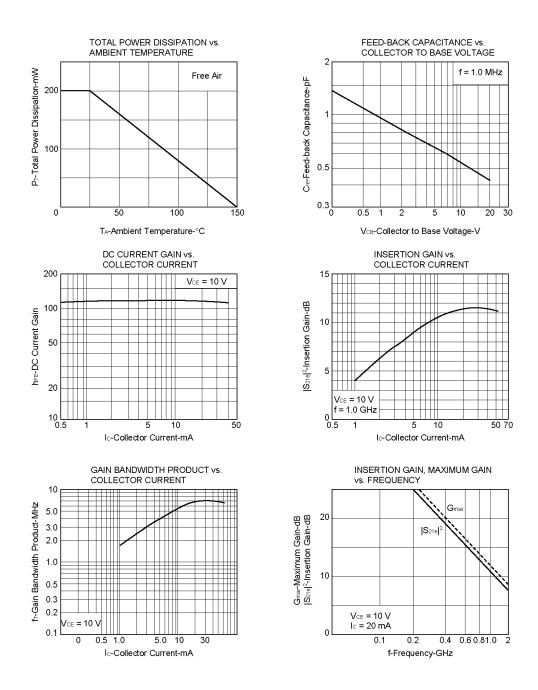
<sup>1)</sup> The emitter terminal and the case shall be connected to the guard terminal of the three-terminal capacitance bridge.

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