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.

3	
2	

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

HFE	MARKING
Q	R23
R	R24
S	R25

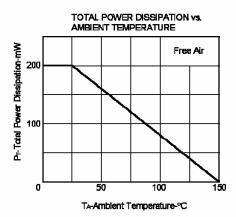
Absolute Maximum Ratings (Ta = 25 °C)

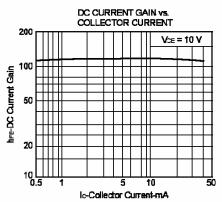
Parameter	Symbol	Value	Unit	
Collector Base Voltage	V _{CBO}	20	V	
Collector Emitter Voltage	V _{CEO}	12	V	
Emitter Base Voltage	V_{EBO}	3	V	
Collector Current	Ic	100	mA	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	Ts	- 65 to + 150	°C	

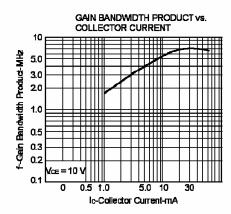
Characteristics (T_a = 25 °C)

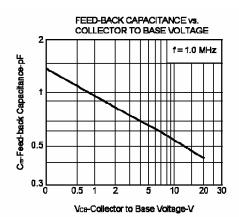
Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at V_{CE} = 10 V, I_C = 20 mA Current Gain Group	Q R S	h _{FE} h _{FE}	50 80 125	- - -	100 160 250	
Collector Cutoff Current at V _{CB} = 10 V		I _{CBO}	ı	-	1	μA
Emitter Cutoff Current at V _{EB} = 1 V		I _{EBO}	1	-	1	μA
Gain Bandwidth Product at V_{CE} = 10 V, I_C = 20 mA		f⊤	ı	3	-	GHz
Feed-Back Capacitance at V_{CB} = 10 V, f = 1 MHz		C _{re} ¹⁾	-	0.55	1	pF
Noise Figure at $V_{CE} = 10 \text{ V}$, $I_C = 7 \text{ mA}$, $f = 1 \text{ GHz}$		NF	-	1.1	2	dB

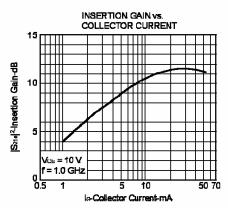
¹⁾ The emitter terminal and the case shall be connected to the guard terminal of the three-terminal capacitance bridge.

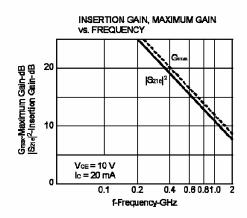








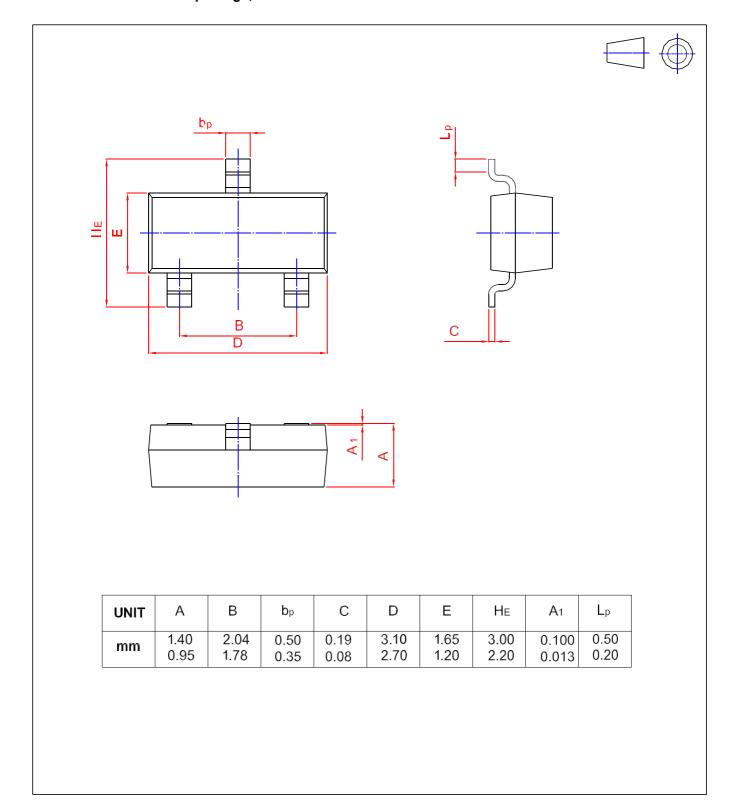




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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