MMBTSC4226

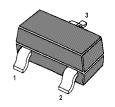
NPN Silicon Epitaxial Planar Transistor

High Frequency Low Noise Amplifier.

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

Description:

The MMBTSC4226 is a low supply voltage transistor designed for VHF, UHF low noise amplifier.



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

Absolute Maximum Ratings (T_a = 25 °C)

	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	
Total Power Dissipation	P _{tot}	200	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	T _{stg}	- 65 to + 150	°C	

Characteristics at T_{amb}= 25 °C

Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $V_{CE} = 3 \text{ V}$, $I_C = 7 \text{ mA}$ Current Gain Group	Q R S	h _{FE} h _{FE}	40 70 125	- - -	80 140 250	- - -
Collector Cutoff Current at V _{CB} = 10 V		I _{CBO}	1	1	1	μA
Emitter Cutoff Current at V _{EB} = 1 V		I _{EBO}	1	1	1	μA
Gain Bandwidth Product at $V_{CE} = 3 \text{ V}$, $I_C = 7 \text{ mA}$		f _⊤	3	4.5	-	GHz
Feed back Capacitance 1) at V _{CE} = 3 V, f = 1 MHz		C_{re}	-	0.7	1.5	pF

¹⁾ Measured with 3 terminal bridge, Emitter and case should be grounded.





