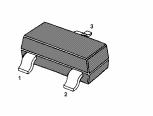
MMBTSC3324

NPN Silicon Epitaxial Planar Transistor

for audio frequency low noise amplifier applications.

The transistor is subdivided into two groups G and L, according to its DC current gain.



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

Features:

High voltage: V_{CEO}=120V

High h_{FE}:h_{FE}=200-700

Low noise:NF(2)=0.2dB(typ.),3dB(max)

Small package

Absolute Maximum Ratings (T_a = 25 °C)

	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	120	V
Collector Emitter Voltage	V _{CEO}	120	V
Emitter Base Voltage	V _{EBO}	5	V
Collector Current	I _C	100	mA
Base Current	I _B	20	mA
Collector Power Dissipation	P _{tot}	200	mW
Junction Temperature	Tj	125	°C
Storage Temperature Range	T _S	-55 to +125	°C







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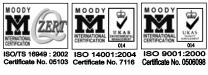
Characteristics at T_a=25 °C

		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain G		h _{FE}	200	-	400	-
at V_{CE} =6V, I_{C} =2	mA L	h _{FE}	350	-	700	-
Collector Emitter Saturation Voltage						
at I _C =10mA, I _B =1mA		$V_{CE(sat)}$	-	-	0.3	V
Collector Cut-off Current						
at V _{CB} =120V		I _{CBO}	-	-	0.1	μΑ
Emitter Cut-off Current						
at V _{EB} =5V		I _{EBO}	-	-	0.1	μΑ
Transition Frequency						
at V _{CE} =6V, I _C =1mA		f_{T}	-	100	-	MHz
Collector Output 0	Capacitance					
at V _{CB} =10V, f=1MHz		C _{OB}	-	4	-	pF
Noise Figure	at V_{CB} =6V, I_{C} =0.1mA f=100Hz, R_{G} =10K Ω	NF	-	0.5	6	- dB
	at V_{CB} =6V, I_{C} =0.1mA f=1KHz, R_{G} =10K Ω	NF	-	0.2	3	









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