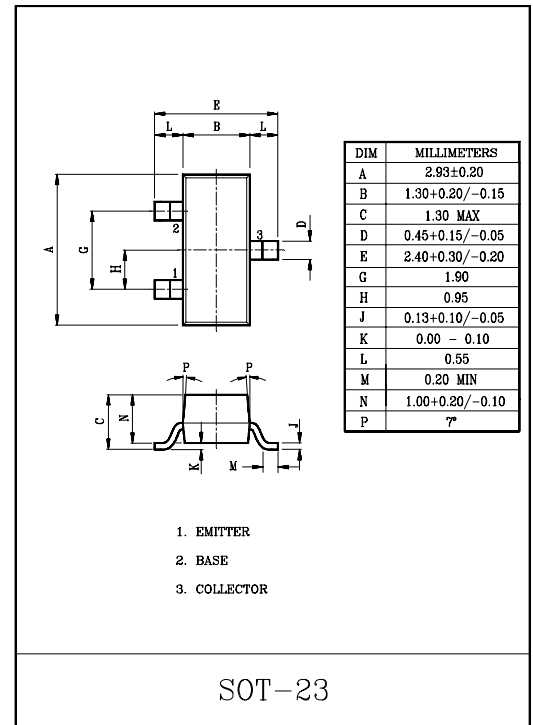


HIGH FREQUENCY APPLICATION.  
VHF BAND AMPLIFIER APPLICATION.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	40	V
Collector-Emitter Voltage	V <sub>CEO</sub>	25	V
Emitter-Base Voltage	BFS20	4	V
	BF599	5	
Collector Current	I <sub>C</sub>	25	mA
Emitter Current	I <sub>E</sub>	-25	mA
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-65~150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	BFS20	V <sub>(BR)CBO</sub> I <sub>C</sub> =10μA, I <sub>E</sub> =0	40	-	-	V
Collector-Emitter Breakdown Voltage		V <sub>(BR)CEO</sub> I <sub>C</sub> =2mA, I <sub>B</sub> =0	25	-	-	V
Emitter-Base Breakdown Voltage		V <sub>(BR)EBO</sub> I <sub>E</sub> =10μA, I <sub>C</sub> =0	4.0	-	-	V
Collector Cut-off Current	BFS20	I <sub>CBO</sub> V <sub>CB</sub> =20V, I <sub>E</sub> =0	-	-	100	nA
			V <sub>CB</sub> =20V, I <sub>E</sub> =0, Ta=150°C	-	-	10
	BF599	V <sub>CB</sub> =40V, I <sub>E</sub> =0	-	-	100	nA
DC Current Gain		h <sub>FE</sub> V <sub>CE</sub> =10V, I <sub>C</sub> =7mA	40	-	-	-
Base-Emitter Voltage	BFS20	V <sub>BE(ON)</sub> V <sub>CE</sub> =10V, I <sub>C</sub> =7mA	-	750	900	mV
	BF599		-	750	-	
Transition Frequency	BFS20	f <sub>T</sub> V <sub>CE</sub> =10V, I <sub>C</sub> =7mA, f=100MHz	275	550	-	MHz
	BF599		-	550	-	
Collector Output Capacitance		C <sub>ob</sub> V <sub>CB</sub> =10V, f=1MHz, I <sub>E</sub> =0	-	0.35	-	pF

MARK SPEC

TYPE	MARK
BFS20	G1
BF599	G2

Marking

