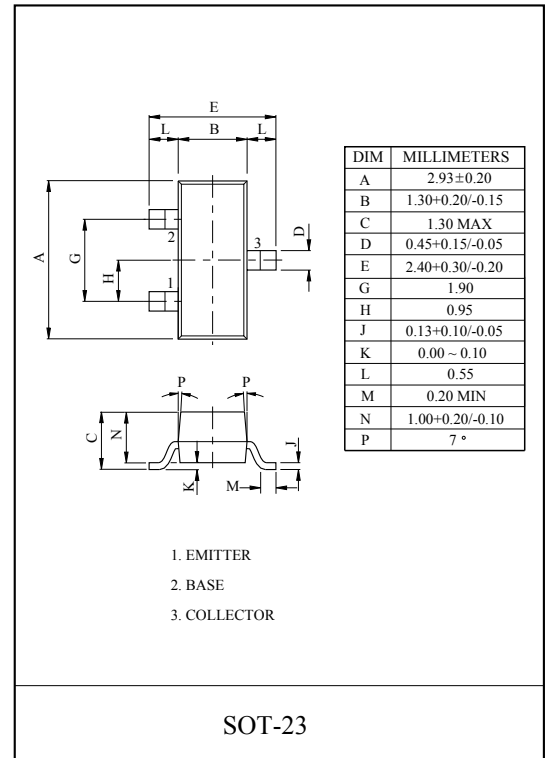


HIGH FREQUENCY APPLICATION.  
VHF BAND AMPLIFIER APPLICATION.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	25	V
Emitter-Base Voltage	BFS20	4	V
	BF599	5	
Collector Current	$I_C$	25	mA
Emitter Current	$I_E$	-25	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-65 ~ 150	°C



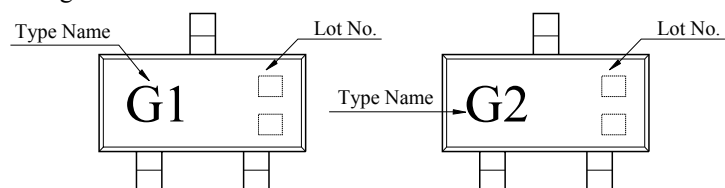
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	40	-	-	V	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=2mA, I_B=0$	25	-	-	V	
Emitter-Base Breakdown Voltage	BFS20	$V_{(BR)EBO}$ $I_E=10\mu A, I_C=0$	4	-	-	V	
	BF599		5				
Collector Cut-off Current	BFS20	$I_{CBO}$	$V_{CB}=20V, I_E=0$	-	-	100	nA
			$V_{CB}=20V, I_E=0, T_a=150^\circ C$	-	-	10	$\mu A$
			BF599	$V_{CB}=40V, I_E=0$	-	-	100
DC Current Gain	$h_{FE}$	$V_{CE}=10V, I_C=7mA$	40	-	-	-	
Base-Emitter Voltage	BFS20	$V_{BE(ON)}$ $V_{CE}=10V, I_C=7mA$	-	750	900	mV	
	BF599		-	750	-		
Transition Frequency	BFS20	$f_T$ $V_{CE}=10V, I_C=7mA, f=100MHz$	275	550	-	MHz	
	BF599		-	550	-		
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, f=1MHz, I_E=0$	-	0.35	-	pF	

### MARK SPEC

TYPE	MARK
BFS20	G1
BF599	G2

### Marking





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