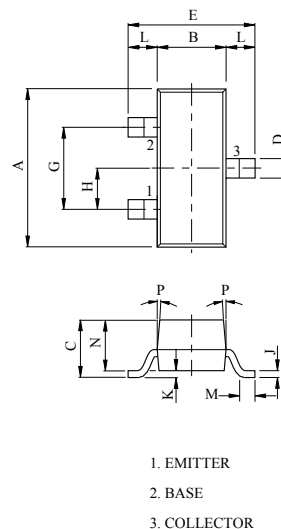


HIGH FREQUENCY APPLICATION.
VHF BAND AMPLIFIER APPLICATION.

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



DIM	MILLIMETERS
A	2.93±0.20
B	1.30+0.20/-0.15
C	1.30 MAX
D	0.45+0.15/-0.05
E	2.40+0.30/-0.20
G	1.90
H	0.95
J	0.13+0.10/-0.05
K	0.00 ~ 0.10
L	0.55
M	0.20 MIN
N	1.00+0.20/-0.10
P	7°

SOT-23

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	$V_{(BR)EBO}$	4	-	-	V
	BF599		5			
Collector Cut-off Current	BFS20	$V_{CB}=20V, I_E=0$	-	-	100	nA
		$V_{CB}=20V, I_E=0, T_a=150^\circ C$	-	-	10	μA
	BF599	$V_{CB}=40V, I_E=0$	-	-	100	nA
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=7mA$	40	-	-	-
Base-Emitter Voltage	BFS20	$V_{BE(ON)}$	-	750	900	mV
	BF599		-	750	-	
Transition Frequency	BFS20	$V_{CE}=10V, I_C=7mA, f=100MHz$	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

