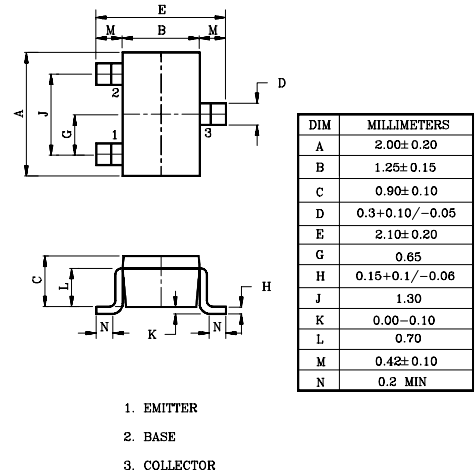


HIGH FREQUENCY APPLICATION.
TV TUNER, VHF OSCILLATOR APPLICATION.

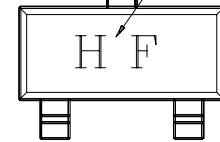
MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	15	V
Emitter-Base Voltage	V_{EBO}	3	V
Collector Current	I_C	50	mA
Base Current	I_B	25	mA
Collector Power Dissipation	P_C	100	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃



USM

Marking Type Name



ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=15V, I_E=0$	—	—	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=3V, I_C=0$	—	—	1.0	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	15	—	—	V
DC Current Gain	h_{FE}	$V_{CE}=3V, I_C=8mA$	40	100	200	
Transition Frequency	f_T	$V_{CE}=10V, I_C=8mA$	650	1100	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	—	0.9	1.3	pF
Collector-Base Time Constant	$C_c \cdot r_{bb'}$	$V_{CB}=10V, I_C=8mA, f=30MHz$	—	7.0	12	pS

