

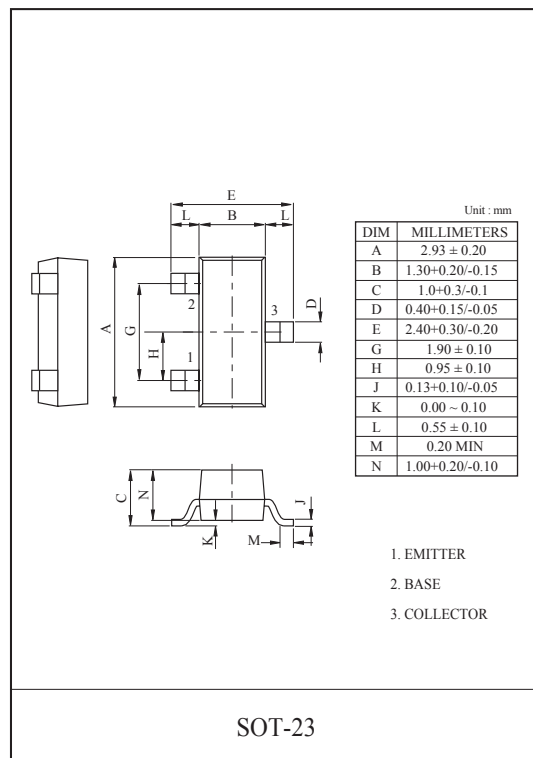
AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

FEATURES

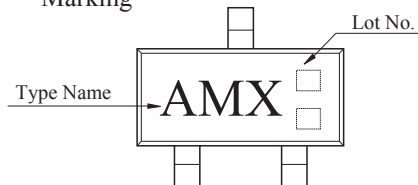
- Complementary to MMBTA05.
- Driver Stage Application of 20 to 25 Watts Amplifiers.
- Suffix U : Qualified to AEC-Q101.
ex) MMBTA55-RTK/HU

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-60	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-500	mA
Emitter Current	I_E	500	mA
Collector Power Dissipation	P_C *	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C

* : Package Mounted On 99.5% Alumina $10 \times 8 \times 0.6$ mm.

Marking



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-60V, I_E=0$	-	-	-100	nA
Emitter Cut-off Current	I_{CEO}	$V_{CE}=-60V, I_B=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-5mA, I_B=0$	-60	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1V, I_C=-10mA$	100	-	-	
	$h_{FE(2)}$	$V_{CE}=-1V, I_C=-100mA$	100	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA, I_B=-10mA$	-	-	-0.25	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-1V, I_C=-100mA$	-	-	-1.2	V
Transition Frequency	f_T	$V_{CE}=-1V, I_C=-100mA$	50	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	14	-	pF

MMBTA55

