

DRIVER STAGE AMPLIFIER APPLICATIONS.
VOLTAGE AMPLIFIER APPLICATIONS.

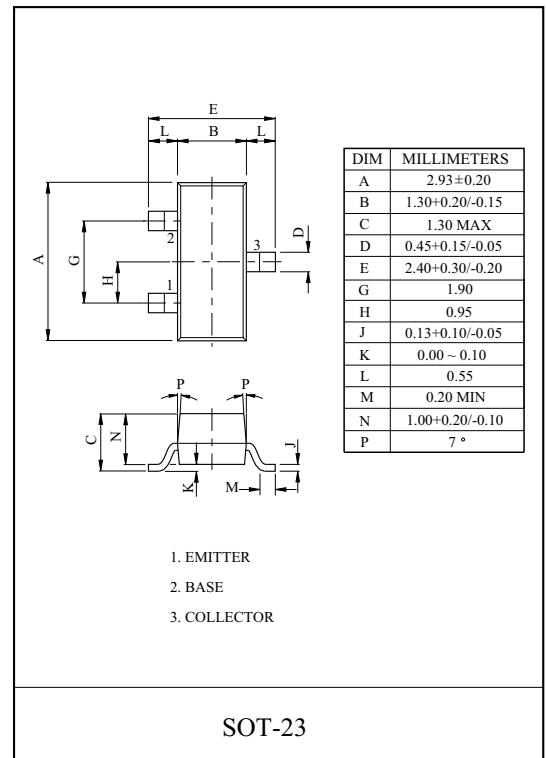
FEATURES

- Complementary to MMBTA55.
- Driver Stage Application of 20 to 25 Watts Amplifiers.

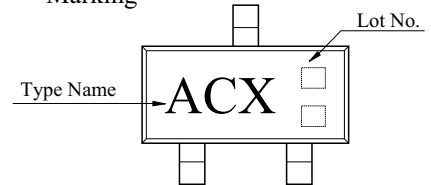
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	6	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 10×8×0.6mm.



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	$V_{CE}=1V, I_C=10mA$	80	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	10	-	pF

MMBTA05

