

DRIVER STAGE AMPLIFIER APPLICATIONS.  
VOLTAGE AMPLIFIER APPLICATIONS.

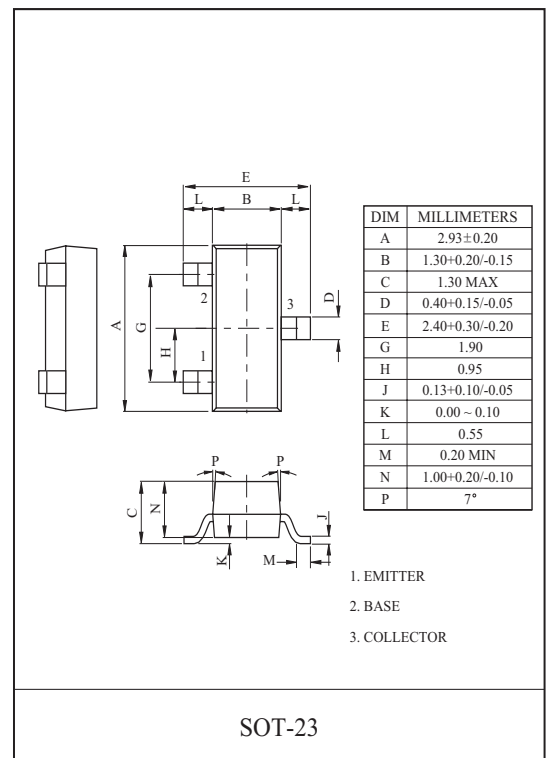
### FEATURE

- Complementary to MMBTA56.
- Suffix U : Qualified to AEC-Q101.  
ex) MMBTA06-RTK/HU

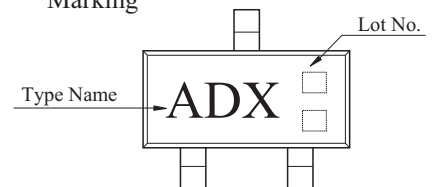
### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	80	V
Collector-Emitter Voltage	$V_{CEO}$	80	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	
Storage Temperature	$T_{stg}$	-55 150	

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



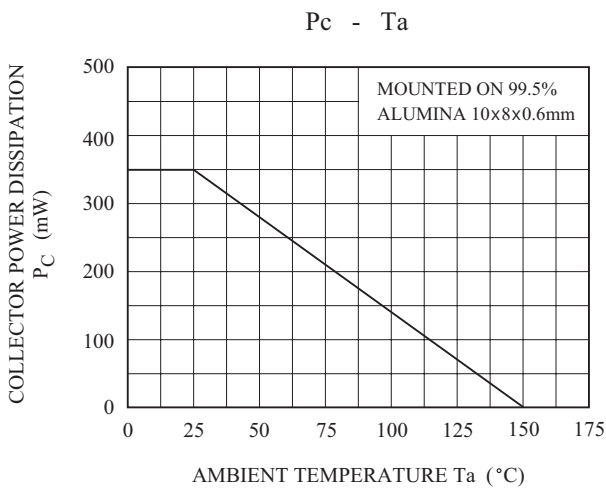
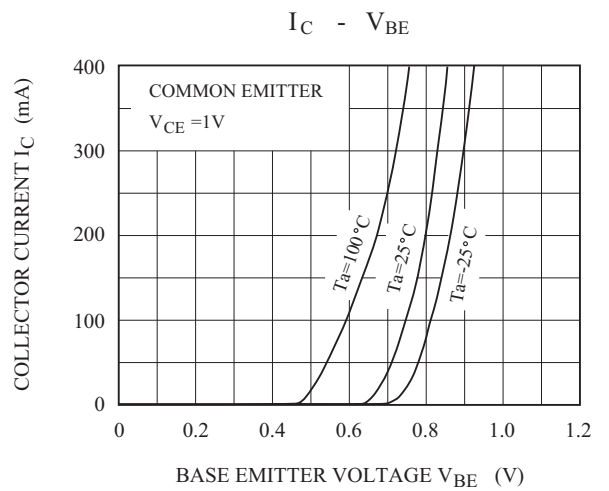
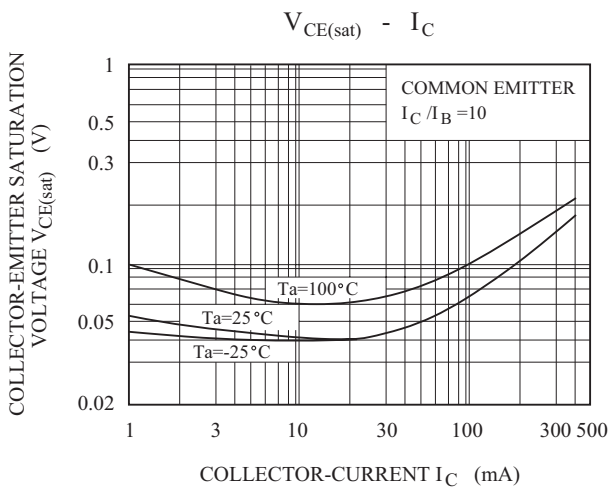
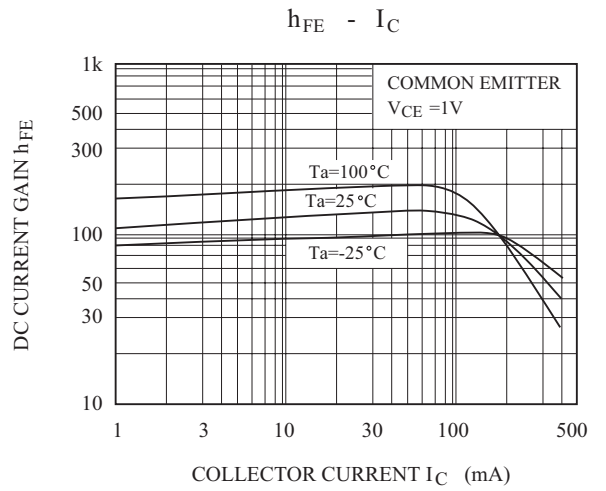
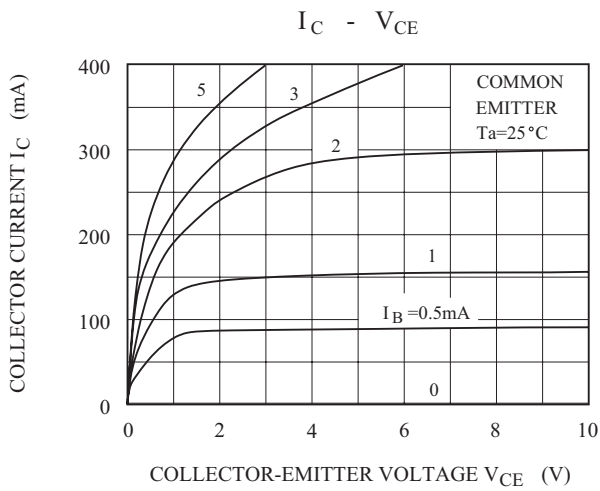
### Marking



### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=80V, I_E=0$	-	-	100	nA
Emitter Cut-off Current	$I_{CEO}$	$V_{CE}=60V, I_B=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	80	-	-	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	$f_T$	$V_{CE}=2V, I_C=10mA$	100	-	-	MHz

# MMBTA06



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