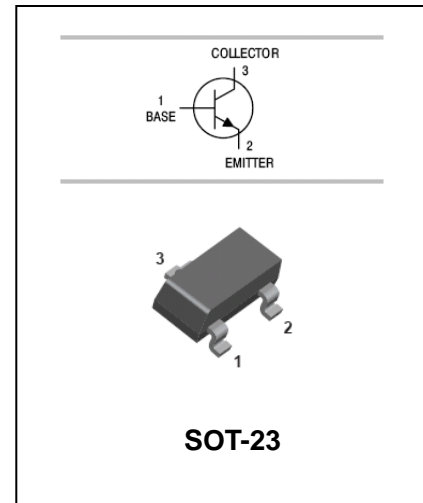


### FEATURES

- Epitaxial planar die construction.
- Ideal for medium power amplification and switching.

### APPLICATIONS

- As a video output to driver color CRT and other high Voltage application.



### ORDERING INFORMATION

Type No.	Marking	Package Code
MMBTA43	ABX	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

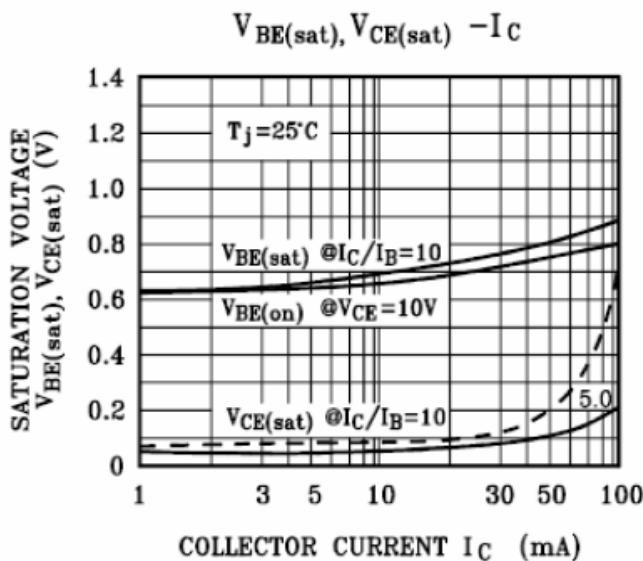
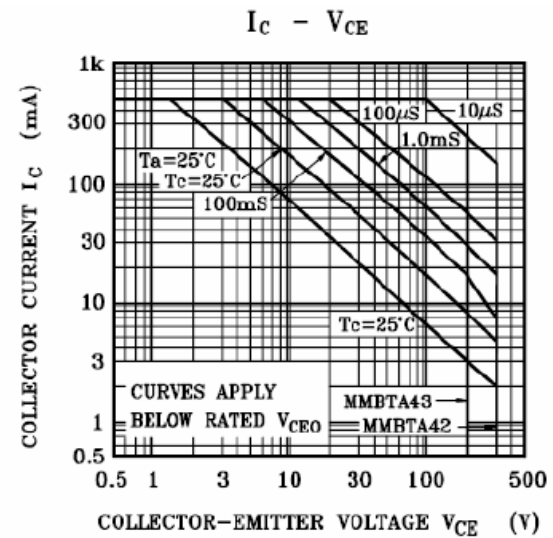
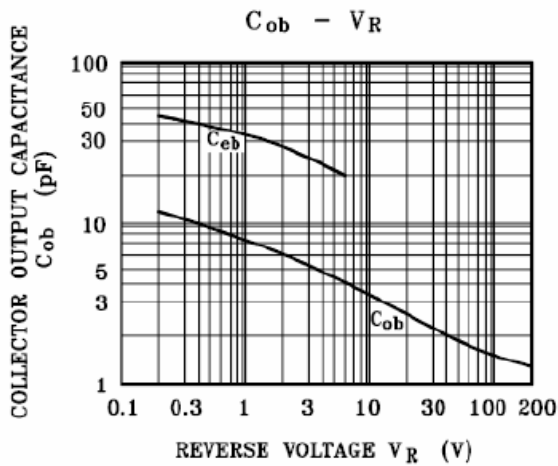
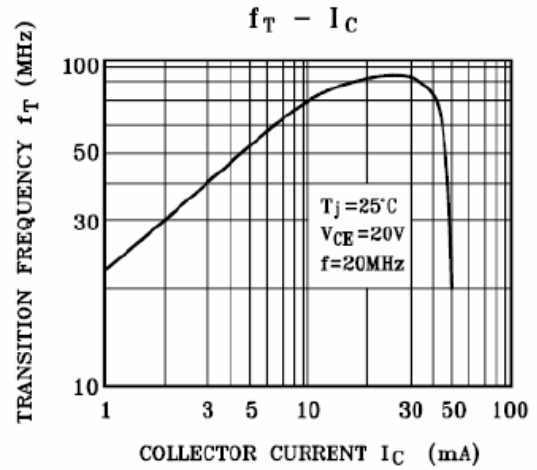
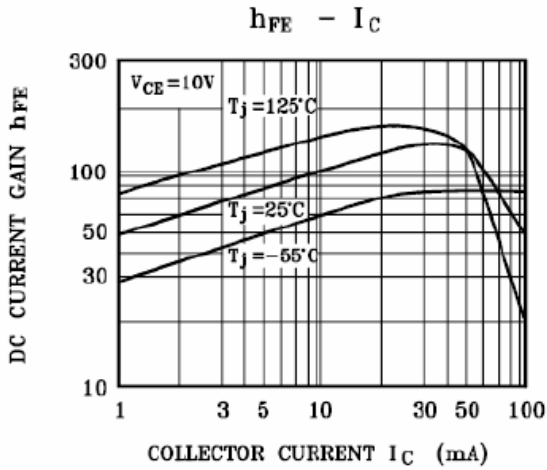
Symbol	Parameter	Value	UNIT
V <sub>CBO</sub>	collector-base voltage	200	V
V <sub>CEO</sub>	collector-emitter voltage	200	V
V <sub>EBO</sub>	emitter-base voltage	6	V
I <sub>C</sub>	collector current (DC)	0.5	A
P <sub>C</sub>	Collector dissipation	0.35	W
T <sub>j</sub> , T <sub>stg</sub>	junction and storage temperature	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =100μA, I <sub>E</sub> =0	200	-	V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =1.0mA, I <sub>B</sub> =0	200	-	V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =100μA, I <sub>C</sub> =0	6	-	V
I <sub>CBO</sub>	collector cut-off current	I <sub>E</sub> = 0; V <sub>CB</sub> = 160V	-	0.1	μA
I <sub>EBO</sub>	emitter cut-off current	I <sub>C</sub> = 0; V <sub>EB</sub> = 4V	-	0.1	μA
h <sub>FE</sub>	DC current gain	V <sub>CE</sub> =10V; I <sub>C</sub> =1mA V <sub>CE</sub> =10V; I <sub>C</sub> =10mA V <sub>CE</sub> =10V; I <sub>C</sub> =30mA	25 40 50	- - 200	
V <sub>CE(sat)</sub>	collector-emitter saturation voltage	I <sub>C</sub> =20mA; I <sub>B</sub> =2mA	-	0.4	V
V <sub>BE(sat)</sub>	base-emitter saturation voltage	I <sub>C</sub> =20mA; I <sub>B</sub> =2mA	-	0.9	V
C <sub>ob</sub>	Collector output capacitance	V <sub>CB</sub> =20V, I <sub>E</sub> =0; f=1.0MHz		4.0	pF
f <sub>T</sub>	transition frequency	I <sub>C</sub> =10mA; V <sub>CE</sub> =20V f=100MHz	50	-	MHz



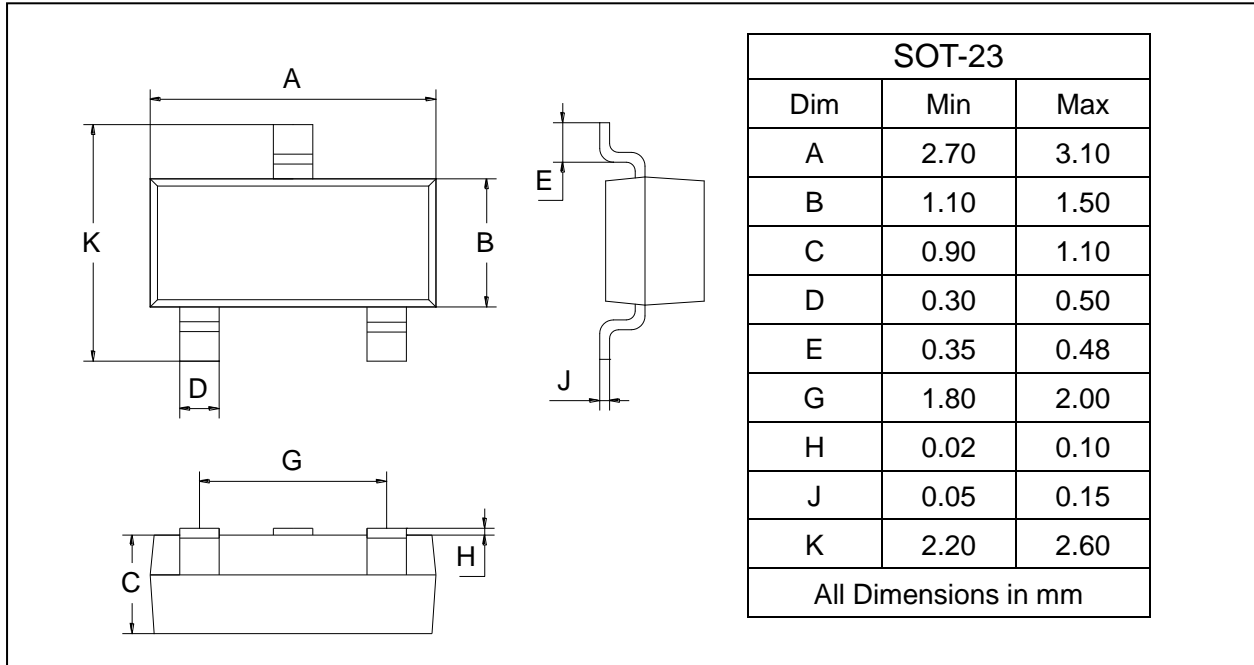
### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



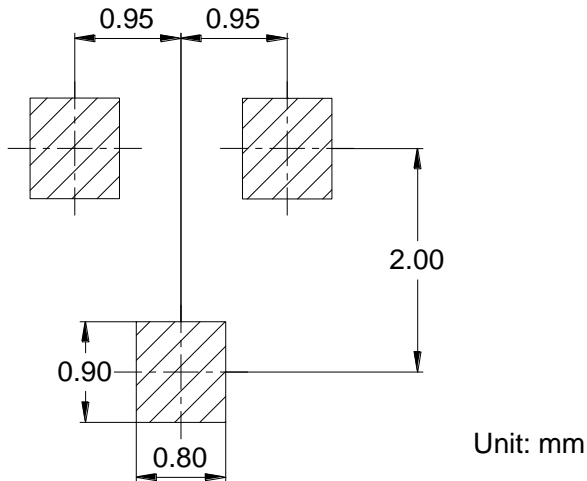
## PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

Device	Package	Shipping
MMBTA43	SOT-23	3000 pcs / Tape & Reel