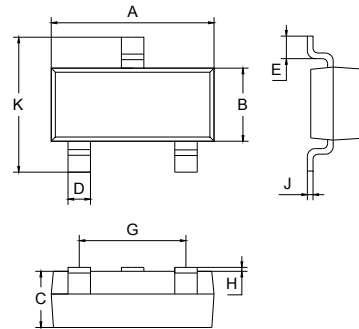


FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available (MMBT4401).
- Also available in lead free version.
- Ideal for medium power amplification and switching.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

APPLICATIONS

- Ideal for medium power amplification and switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBT4403	2T	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

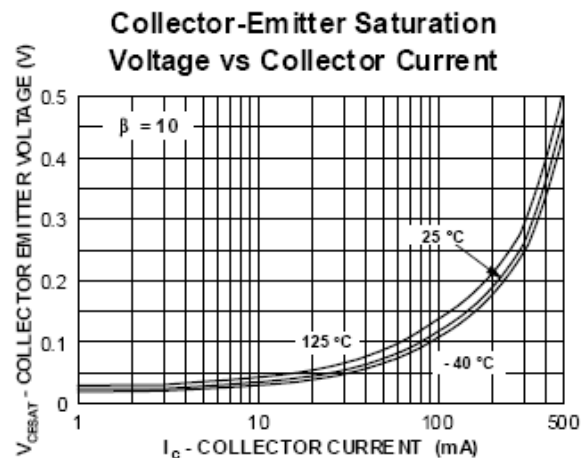
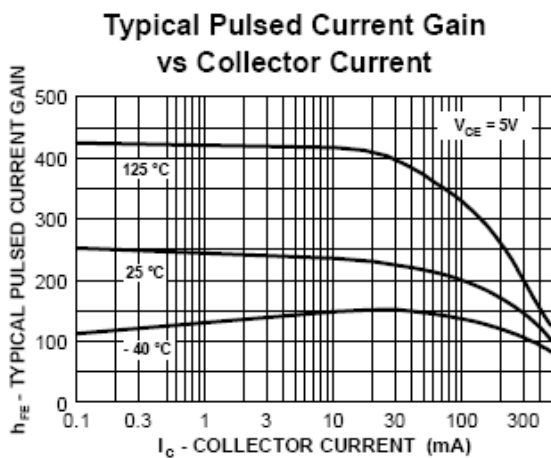
Symbol	Parameter	Value	UNIT
V _{CBO}	collector-base voltage	-40	V
V _{CEO}	collector-emitter voltage	-40	V
V _{EBO}	emitter-base voltage	-5	V
I _C	collector current (DC)	-0.6	A
P _C	Collector dissipation	0.35	W
R _{θJA}	Thermal Resistance, Junction to Ambient	357	°C/W
T _J , T _{stg}	junction and storage temperature	-55 to +150	°C

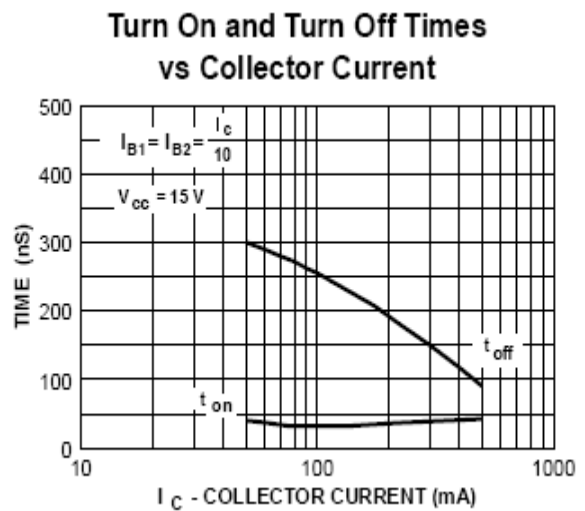
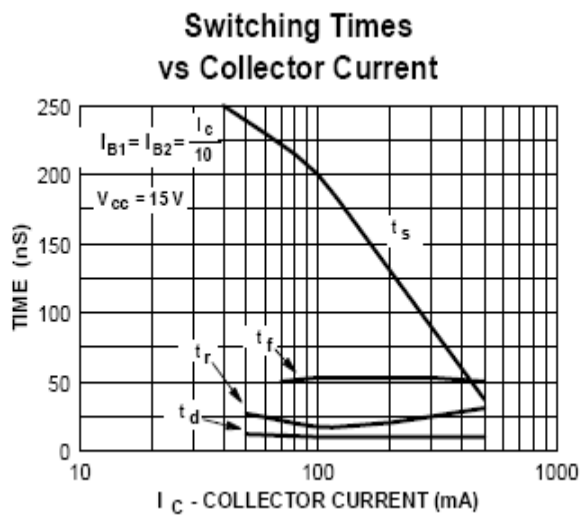
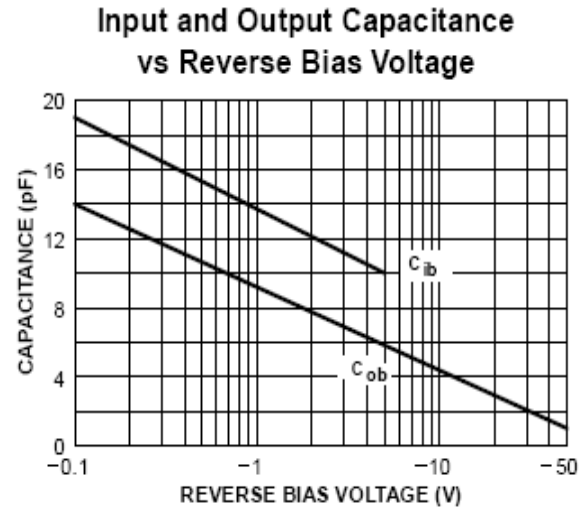
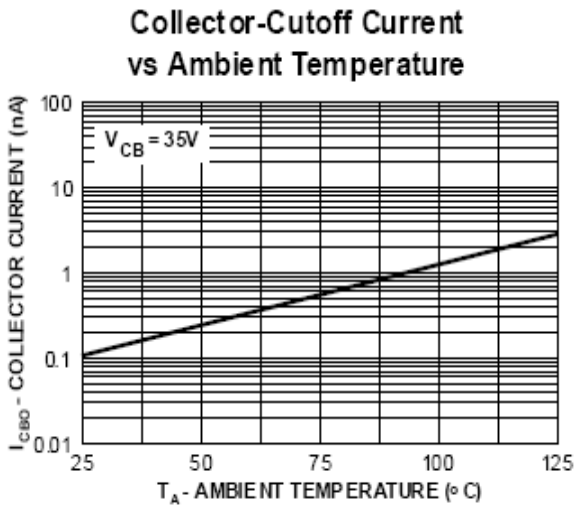
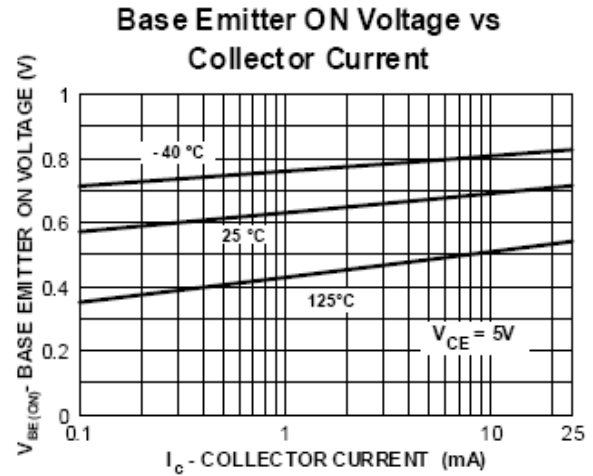
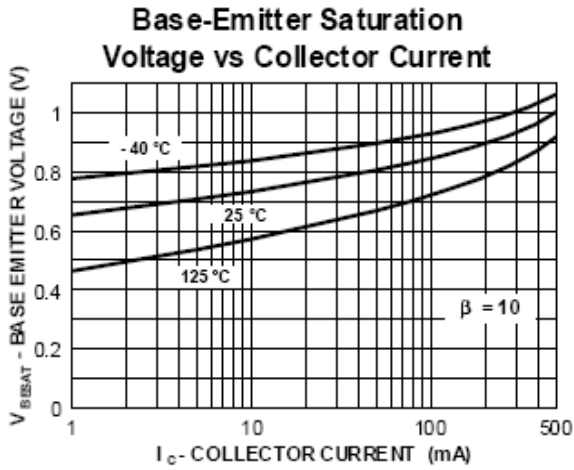


ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -100\mu A, I_E = 0$	-40		
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -1mA, I_B = 0$	-40		
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu A, I_C = 0$	-5		
I_{CEX}	collector cut-off current	$V_{CE} = -35V, V_{BE} = 0.4V$		-0.1	μA
I_{BL}	Base cut-off current	$V_{CE} = -35V, V_{BE} = -0.4V$		-0.1	μA
h_{FE}	DC current gain	$V_{CE} = -1V; I_C = -0.1mA$ $V_{CE} = -1V; I_C = -1mA$ $V_{CE} = -1V; I_C = -10mA$ $V_{CE} = -2V; I_C = -150mA$ $V_{CE} = -2V; I_C = -500mA$	30 60 100 100 20	300	
$V_{CE(sat)}$	collector-emitter saturation voltage	$I_C = -150mA, I_B = -15mA$ $I_C = -500mA, I_B = -50mA$	-	-0.4 -0.75	V
$V_{BE(sat)}$	base-emitter saturation voltage	$I_C = -150mA; I_B = -15mA$ $I_C = -500mA; I_B = -50mA$	-0.75	-0.95 -1.3	V
f_T	transition frequency	$I_C = -20mA; V_{CE} = -10V;$ $f = 100MHz$	200	-	MHz

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220