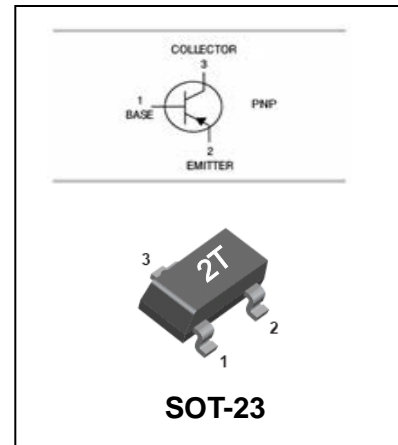


FEATURES

- Epitaxial planar die construction
- Complementary NPN product available - MMBT4401
- MSL Class 1 compatible

APPLICATIONS

- General purpose in desktop & handheld systems
- Ideal for medium-power signal amplification and switching

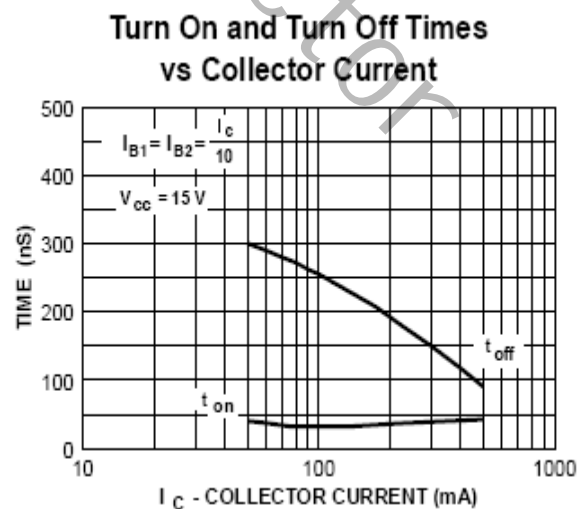
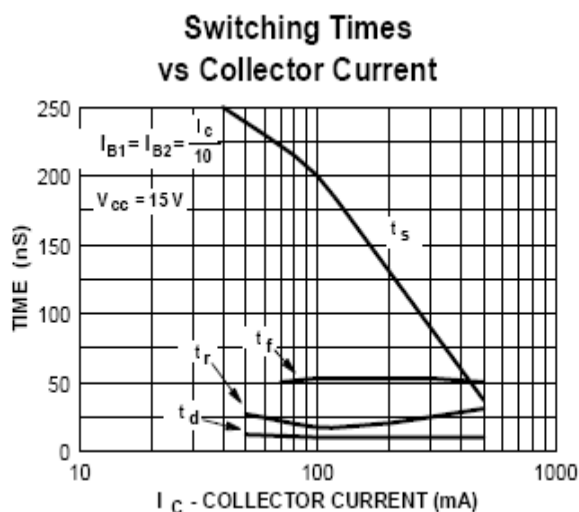
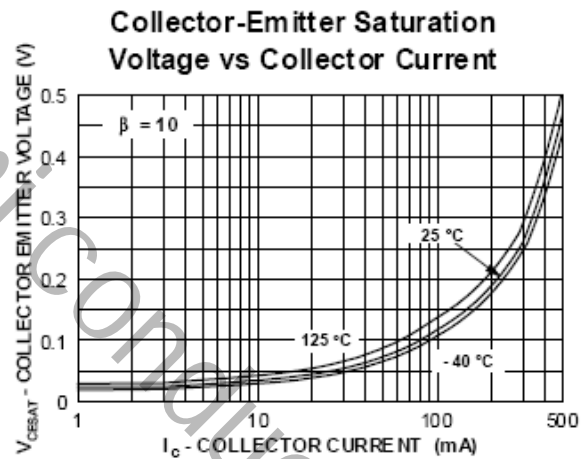
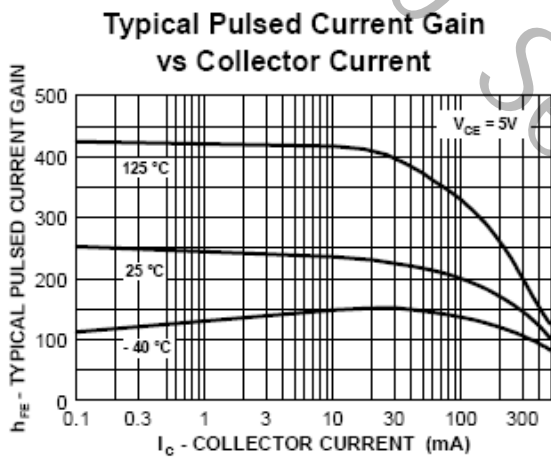
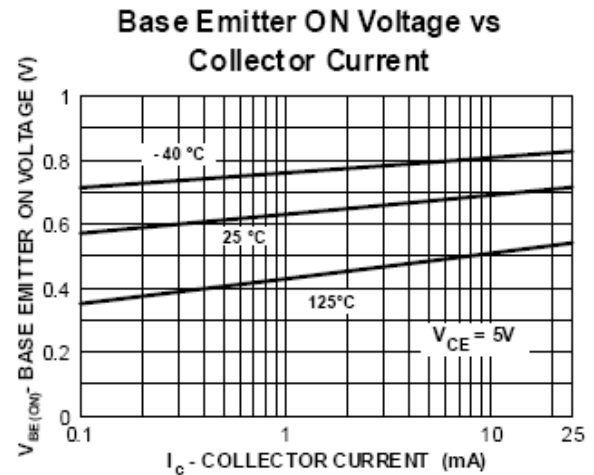
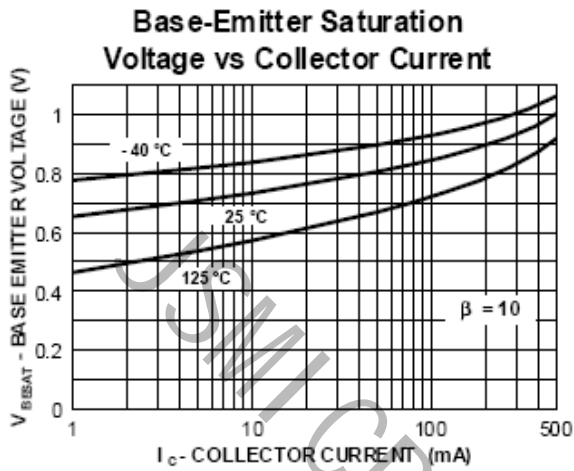


MAXIMUM RATING (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CB0}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (Continuous)	I_C	-0.6	A
Collector Current (Peak)	I_{CM}	-1.2	A
Power Dissipation (Collector)	P_C	350	mW
Thermal Resistance (Junction-to-Ambient)	$R_{\theta JA}$	357	$^\circ\text{C/W}$
Thermal Resistance (Junction-to-Case)	$R_{\theta JC}$	250	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ\text{C}$

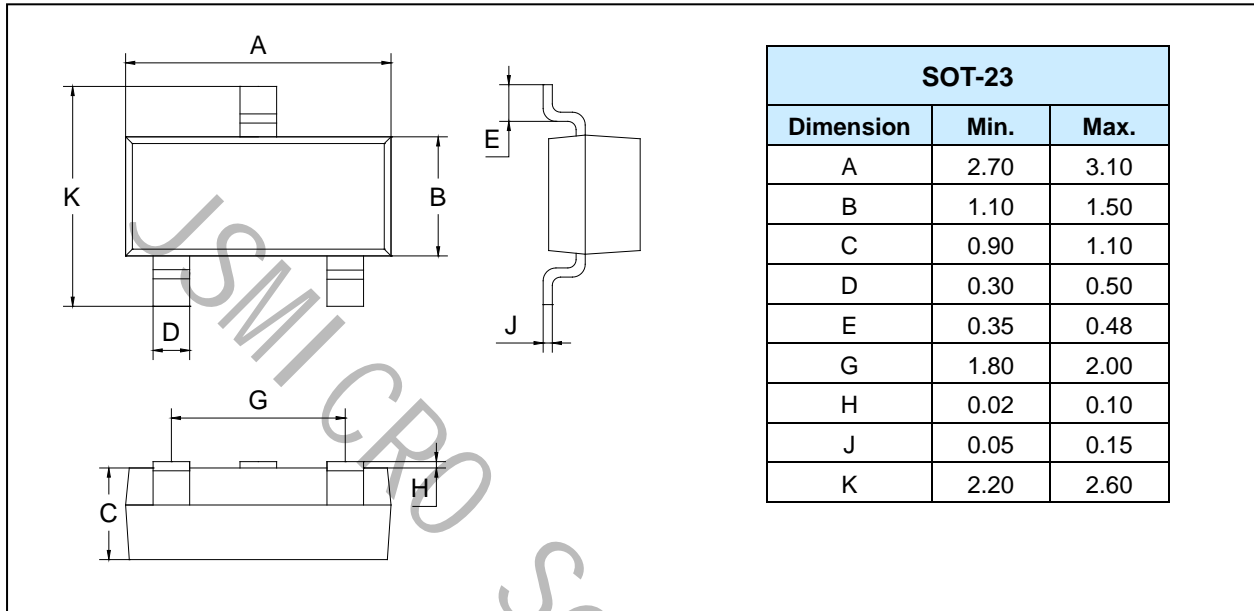
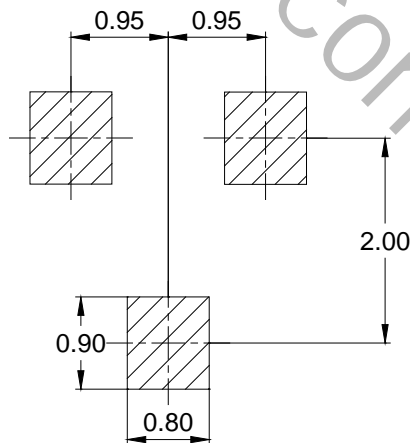
ELECTRICAL CHARACTERISTICS (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = -100μA, I _E = 0	-40			V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = -1mA, I _B = 0	-40			V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = -100μA, I _C = 0	-5			V
Collector Cut-off Current	I _{CBO}	V _{CB} = -35V, I _E = 0	-	-	-0.1	μA
Collector Cut-off Current	I _{CEX}	V _{CE} = -35V, V _{BE} = -0.4V			-0.10	μA
Base Cut-off Current	I _{BL}	V _{CE} = -35V, V _{BE} = -0.4V			-0.10	μA
DC Current Gain	h _{FE}	V _{CE} = -1V, I _C = -0.1mA	30			-
		V _{CE} = -1V, I _C = -1.0mA	60			
		V _{CE} = -1V, I _C = -10mA	100			
		V _{CE} = -2V, I _C = -150mA	100		300	
		V _{CE} = -2V, I _C = -500mA	20			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA			-0.40 -0.75	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA	-0.75		-0.95 -1.30	V
Transition Frequency	f _T	V _{CE} = -10V, I _C = -20mA f = 100MHz	200			MHz

TYPICAL CHARACTERISTICS (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)


PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package


MOUNTING PAD LAYOUT (Unit: mm)

PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
MMBT4403	SOT-23	3000pcs / Tape & Reel