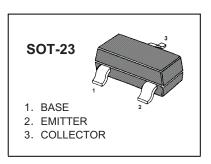


MMBT4401 TRANSISTOR (NPN)

FEATURES

Switching transistor

MARKING: 2X



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	600	mA
Pc	Collector Power dissipation	0.3	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55to +150	$^{\circ}$
$R_{\Theta JA}$	Thermal Resistance, junction to Ambient	357	°C/mW

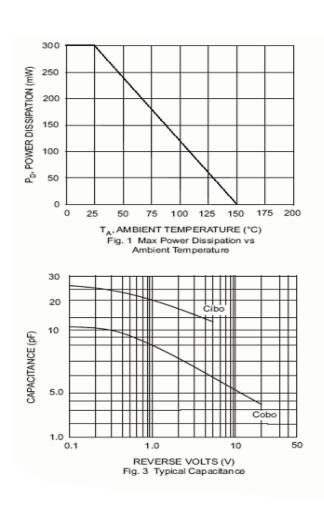
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

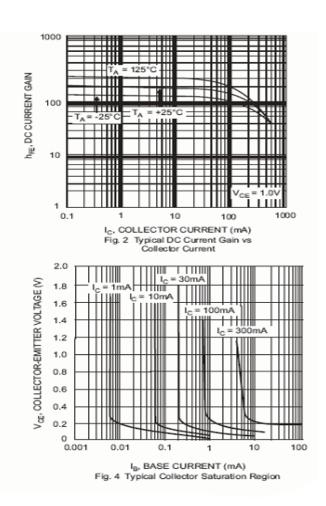
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage		I _C = 100μA, I _E =0	60		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	40		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	6		V
Collector cut-off current	I _{CBO}	V _{CB} =50 V, I _E =0		0.1	μА
Collector cut-off current	I _{CEO}	V _{CE} =30 V, I _B =0		0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0		0.1	μА
DC current gain	h _{FE}	V _{CE} =1V, I _C =150mA	100	300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =150mA, _B =15mA		0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 150mA, I _B =15mA		0.95	V
Transition frequency	f⊤	$V_{CE} = 10V$, $I_{C} = 20$ mA f = 100MHz	250		MHz

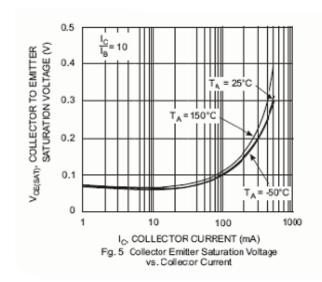


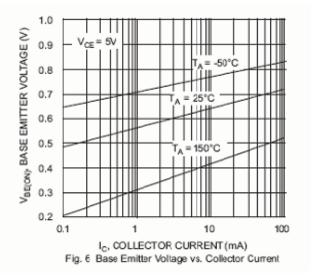
Typical Characteristics

MMBT4401







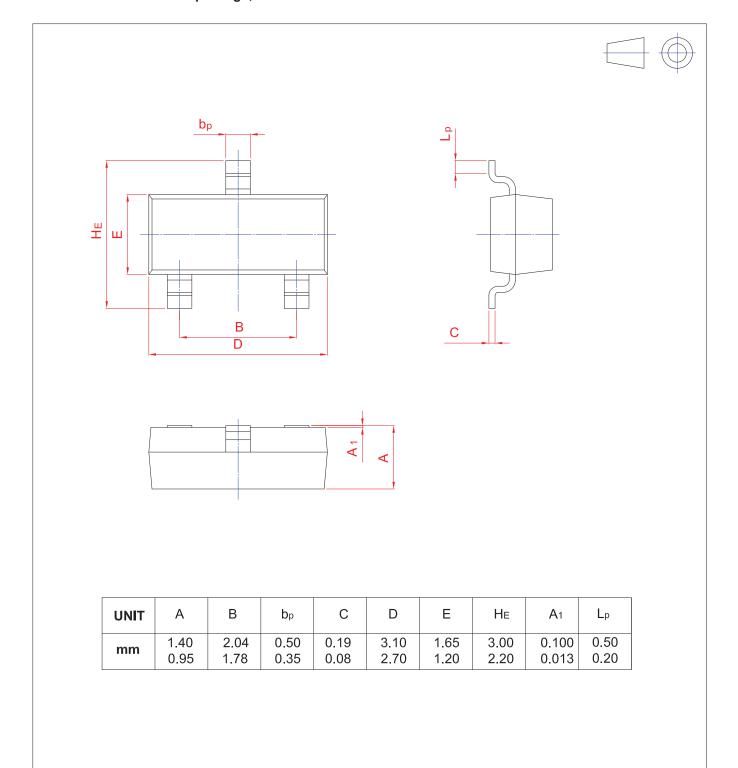




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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2N2907A 2N3904-NS 2N5769 2SB1324-TD-E 2SC2412KT146S 2SC3332T 2SC3902S 2SC5231C8-TL-E 2SD1685F CPH6501-TL-E

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