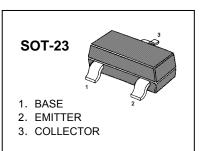
MMBTSC2412 TRANSISTOR (NPN)

FEATURES

· Low C_{ob} , C_{ob} = 2.0 pF (Typ).

MARKING: BR



MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current -Continuous	150	mA	
Pc	Collector Power Dissipation	200	mW	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	$^{\circ}$	

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

LLCTRIOAL CHARACTERIOTICS (Tamb-23 C unless otherwise specified)									
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT			
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA, I _E =0	60			V			
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	50			V			
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA, I _C =0	7			V			
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	μA			
Emitter cut-off current	I _{EBO}	V _{EB} =7V, I _C =0			0.1	μA			
DC current gain	h _{FE}	V _{CE} =6V, I _C =1mA	180		390				
Collector-emitter saturation voltage	V _{CE(sat)}	I_C =50mA, I_B =5mA			0.4	V			
Transition frequency	f⊤	V _{CE} =12V, I _C =-2mA, f=100MHz		160		MHz			
Collector output capacitance	C _{ob}	V _{CB} =12V, I _E =0, f=1MHz		2.0	3.5	pF			

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Typical Characteristics

SO VŒ=6V VŒ=6V VŒ=6V O 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6

Fig.1 Grounded emitter propagation characteristics

BASE TO EMITTER VOLTAGE: VBE (V)

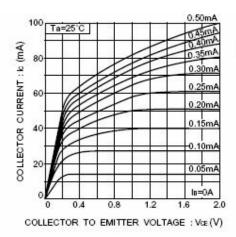


Fig.2 Grounded emitter output characteristics (1)

MMBTSC2412

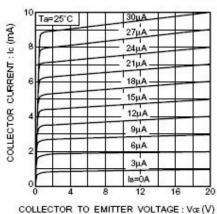


Fig.3 Grounded emitter output characteristics (II)

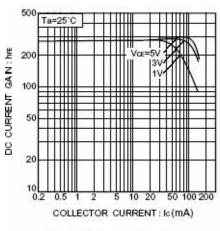


Fig.4 DC current gain vs. collector current (1)

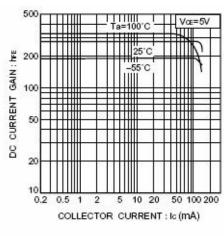


Fig.5 DC current gain vs. collector current (II)

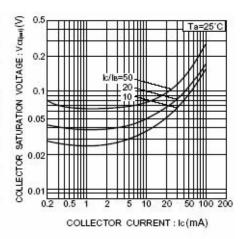


Fig. 6 Collector-emitter saturation voltage vs. collector current

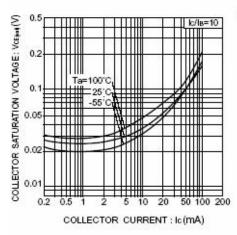


Fig.7 Collector-emitter saturation voltage vs. collector current (1)

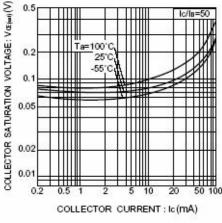


Fig.8 Collector-emitter saturation voltage vs. collector current (II)

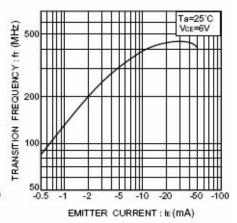


Fig.9 Gain bandwidth product vs. emitter current

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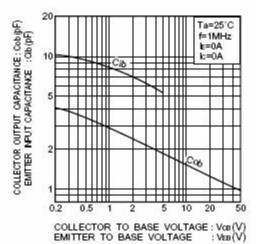


Fig.10 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

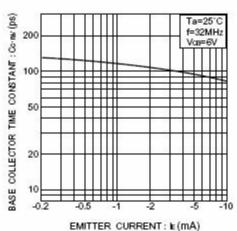


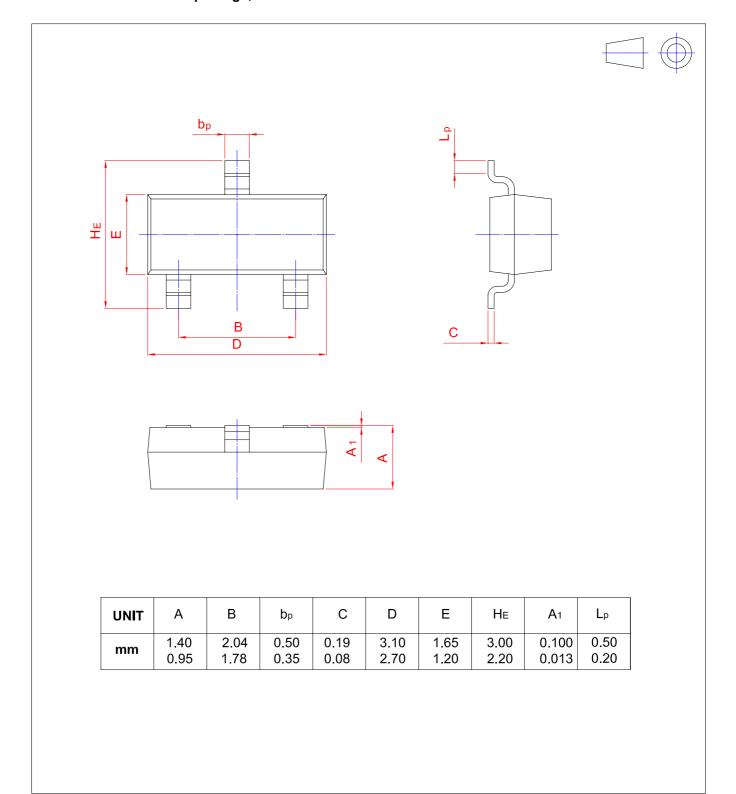
Fig.11 Base-collector time constant vs. emitter current

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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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