

Features

Collector Current: I_C=0.1A

Power Dissipation of 200mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMBT6428	SOT-23	L7	3000



SOT-23



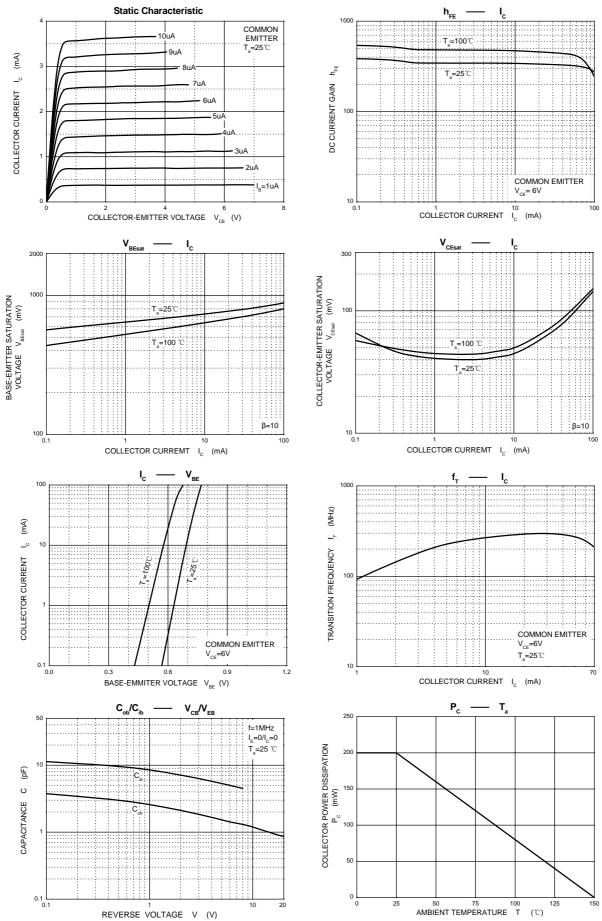
Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	100	mA
Collector Power Dissipation	P _c	200	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	625	°C/W
Storage Temperature	T _{stg}	-55∼+150	°C

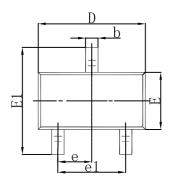
Electrical Characteristics (Ta=25°C unless otherwise specified)

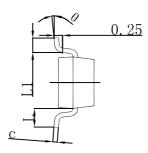
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =6V,I _C =1mA	300		600	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA,I _B =10mA			0.3	٧
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA,I _B =10mA			1	V
Transition frequency	f⊤	V _{CE} =6V,I _C =10mA		250		MHz

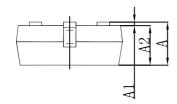
Typical Characteristics



SOT-23 Package Outline Dimensions

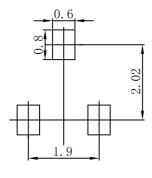






Symbol	Dimensions In Millimeters		Dimensions In Inches			
	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	0.950	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079		
L	0.550 REF		0.022 REF			
L1	0.300	0.500	0.012	0.020		
θ	0°	8°	0°	8°		

SOT-23 Suggested Pad Layout



- Note:
 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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