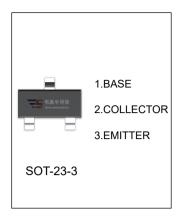


M8050 TRANSISTOR (NPN)

FEATURES

Power dissipation



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	800	mA
Pc	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$

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

Parameter	Symbol	Test conditions	Min	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	25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	6		V
Collector cut-off current	I _{CBO}	V _{CB} = 35V, I _E =0		0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} = 20V, I _B =0		0.1	μA
	h _{FE(1)}	V _{CE} =1V, I _C =5mA	45		
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =100mA	80	400	
	h _{FE(3)}	V _{CE} =1V, I _C =800mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 800mA, I _B =80mA		0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =800mA, I _B = 80mA		1.2	V
Transition frequency	f _T	V _{CE} =6V, I _C = 20mA , f=30MHz	150		MHz

^{*} Pulse Test : pulse width ≤ 300µs , duty cycle ≤2%.

CLASSIFICATION OF h_{FE(2)}

Rank	L	Н
Range	80-300	300-400



