SINLOON®

雙極型晶體管

SOT-23 M8050

NPN General Purpose Transistors

☐ **FEATURE:**

◆ Power Dissipation

☐ **MECHANICAL CHARACTERISTICS:**

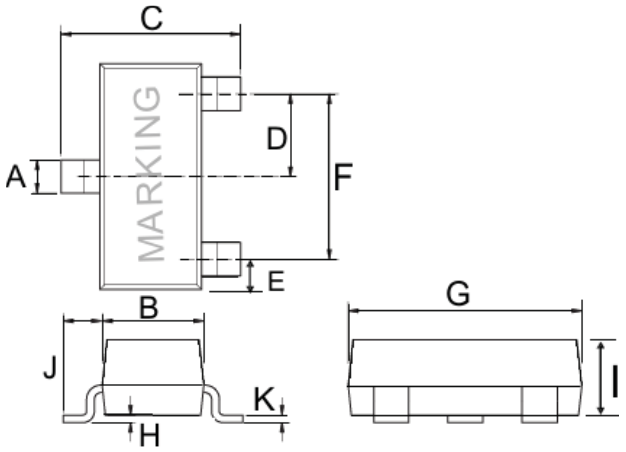
◆ Case: SOT-23 Molded Plastic
◆ Weight: 0.01 Grams (approx)
◆ Marking: Body top
◆ Terminals: Plated leads solderable per MIL-STD-202, Method 20
◆ Mounting: Position any

Figure

☐ **SOT-23 M8050** Top View

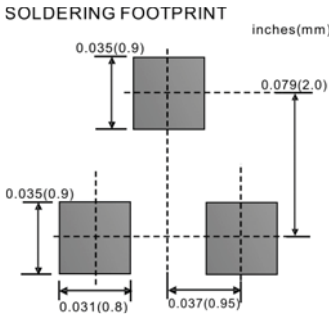
☐ **DIMENSION:** mm

SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.19	1.4
C	2.1	2.5
D	0.89	1.05
E	0.45	0.61
F	1.78	2.05
G	2.65	3.05
H	0.013	0.15
I	0.89	1.1
J	0.45	0.61
K	0.076	0.178



☐ **Maximum Ratings** @T_A=25℃ unless otherwise noted

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	0.8	A
CollectorPower Dissipation	P_C	0.2	W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{stg}	-55~150	℃



☐ **Classification Of** $h_{FE(2)}$

Rank	L	H
Range:	80-200	200-300

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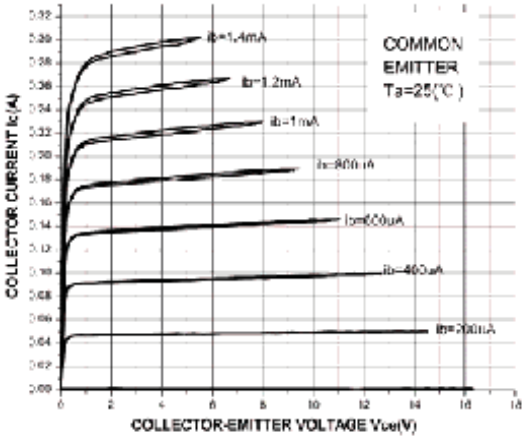
☐ **Electrical Characteristics** T_{amb}=25℃ unless otherwise specified

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Collector-Base Breakdown voltage	$V(BR)_{CBO}$	I_C=100uA,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=100uA,I_C=0	6	---	V
Collector cut-off current	I_{CBO}	V_{CB}=35V,I_E=0	---	0.1	μA
	I_{CEO}	V_{CE}=20V,I_B=0	---	0.1	μA
DC Current gain	$h_{FE(1)}$	V_{CE}=1V,I_C=50mA	45	---	
	$h_{FE(2)}$	V_{CE}=1V,I_C=100mA	80	300	
	$h_{FE(3)}$	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 ferquency	f_T	V_{CE}=6V,I_C=200mA f=30MHZ	150	---	MHz

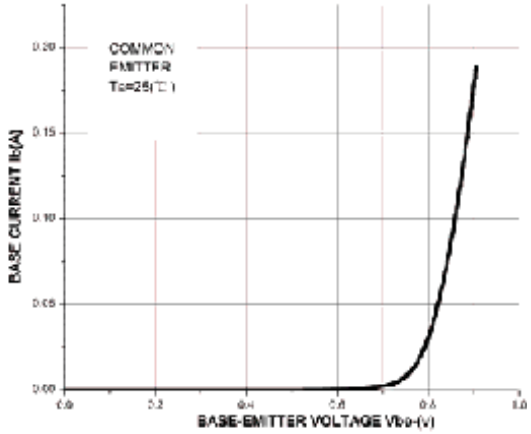
* Pulse Test: Pulse width ≦300μs, duty cycle ≦2%

Typical Characteristics M8050

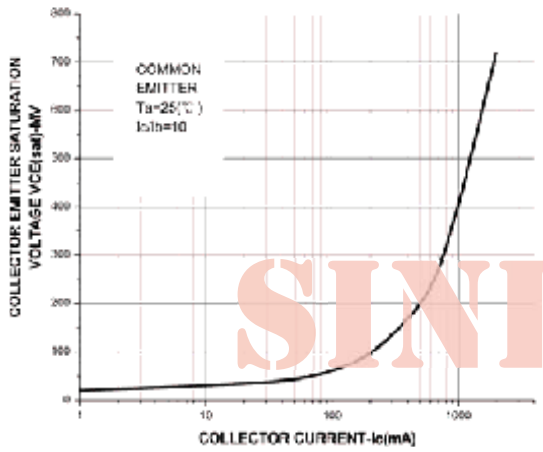
Ic-Vce



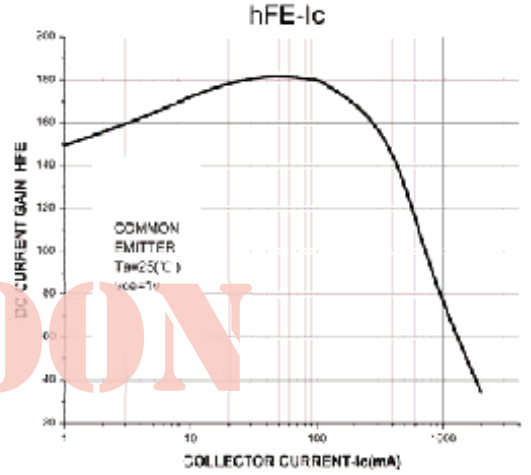
Ib-Vbe



Vcesat-Ic



hFE-Ic



RoHS Compliant
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☐ **COMMON PACKING INFORMATION:**

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
M8050	SOT-23	3000 Tape & Reel	180,000 Ctn	12 Kg

Reel Diameter (Inch)	Quantity (Pcs)	Inner Box Size (mm)	Carton Size (mm)
7"	3000	L: 203 x W:203 x H:195	L:439 x W:438 x H:220

Plastic Reel : Fig-1

Reel Qty: 3000 Reel

Inner Box: Fig-2

Inner Box Qty: 45,000 PCS

Carton Pack Fig-3

Carton Qty: 180,000 PCS

美隆電子產品規格特性參數的改變或更新,將不會另行通知。
Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。

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