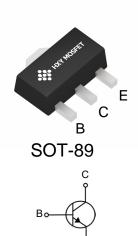


Features

- Collector Current: I_C=1.5A
- Power Dissipation of 500mW

Package Marking and Ordering Information

Product ID	D Pack Marking		Qty(PCS)	
SS8050	SOT-89	Y1	1000	



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

Parameter	Symbol	Limit	Unit	
Collector-Base Voltage	V _{CBO}	40	V	
Collector-Emitter Voltage	V _{CEO}	25	V	
Emitter-Base Voltage	V _{EBO}	5	V	
Collector Current	I _c	1.5	А	
Collector Power Dissipation	P _C	500	mW	
Thermal Resistance From Junction To Ambient	$R_{\Theta JA}$	250	°C/W	
Junction Temperature	T _j	150	°C	
Storage Temperature	T _{stg}	-55∼+150	°C	

Classifiction Of hFE

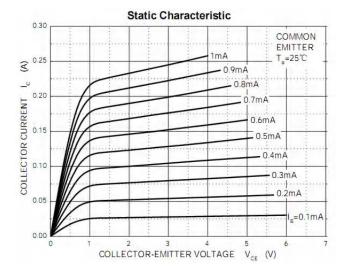
Rank	L	Н	J
Range	120-200	200-350	300-400

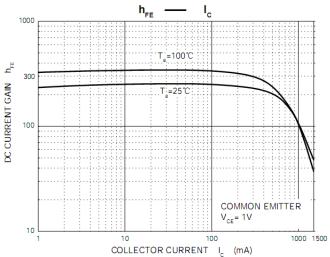


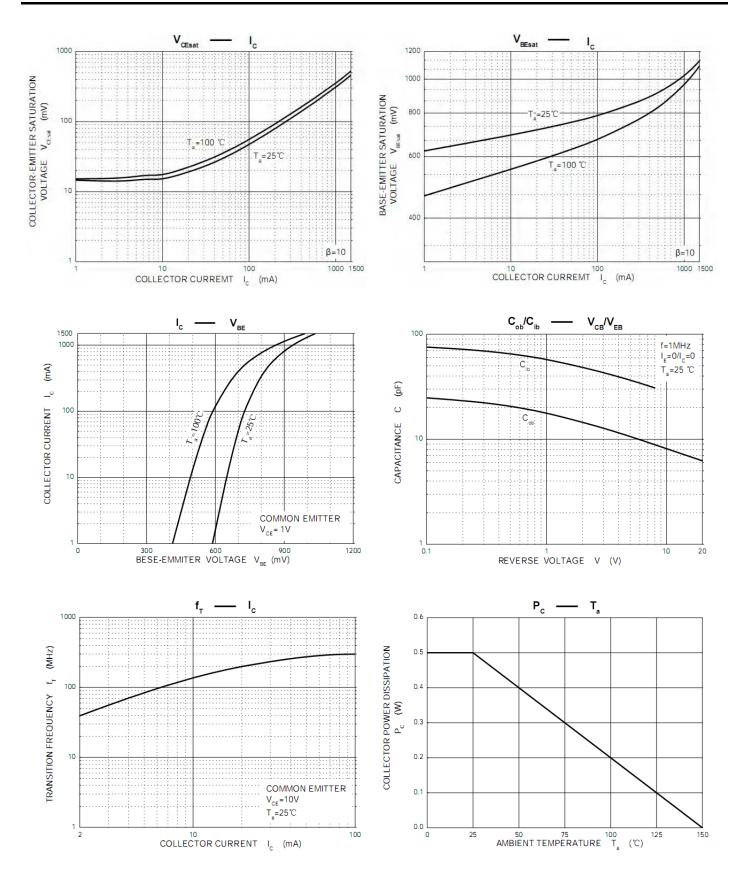
Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100uA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V, I _E =0			0.1	μA
Emitter cut-off current	I _{CEO}	V _{CE} =20V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =100mA	85		400	
DC current gain	h _{FE(2)}	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
Base-emitter voltage	V_{BE}	V _{CE} =1V, I _C =10mA			1	٧
Base-emitter positive favor voltage	V_{BEF}	I _B =1A			1.55	٧
Transition frequency	f _T	V _{CE} =10V,I _C =50mA,f=30MHz	100			MHz
output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz			15	pF

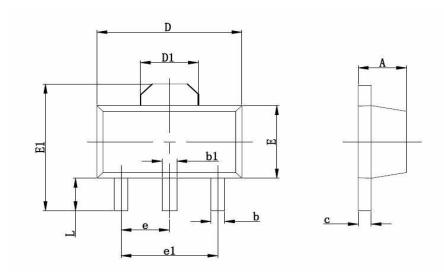
Typical Characteristics







SOT-89 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.400	0.580	0.016	0.023	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.550 REF.		0.061 REF.		
E	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
е	1.500 TYP.		0.060 TYP.		
e1	3.000 TYP.		0.118 TYP.		
L	0.900	1.200	0.035	0.047	



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