

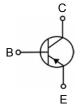
Features

- Collector Current: I_C= -1A
- Power Dissipation of 500mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
2SA1013	SOT-89	1013	1000	





Maxmim Ratings (Ta=25 unless otherwise noted)

Symbl	Parameter	Value	Unit
Vсво	Collector-Base Voltage	-160	V
VCEO	Collector-Emitter Voltage	-160	V
VEBO	Emitter-Base Voltage	-6	V
I _C	Collector Current-Continuous	-1	Α
Pc	Collector Power Dissipation	500	mW
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55-150	$^{\circ}$

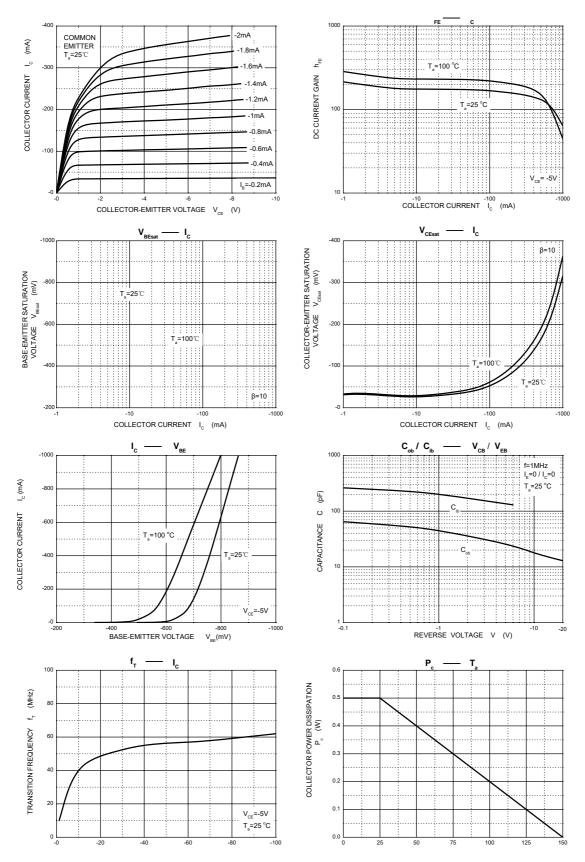
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =- 100μA , I _E =0	-160		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I_C = -1mA , I_B =0	-160		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -10μΑ, I _C =0	-6		V
Collector cut-off current	I _{CBO}	V _{CB} =-150 V , I _E =0		-1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-6V, I _C =0		-1	μΑ
DC current gain	h _{FE}	V _{CE} =-5 V, I _C =- 200mA	60	320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500m A, I _B = -50mA		-1.5	V
Base-emitter voltage	V _{BE}	I _C = -5 mA, V _{CE} =- 5V		-0.75	V
Transition frequency	f⊤	V _{CE} = -5 V, I _C = -200mA	15		MHz

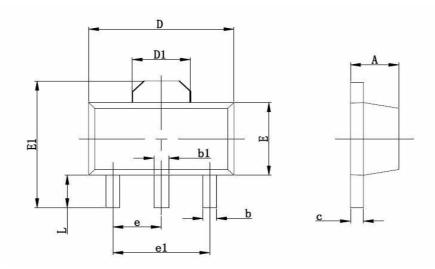
Classifiction Of hFE

Rank	R	0	Y
Range	60-120	100-200	160-320

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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