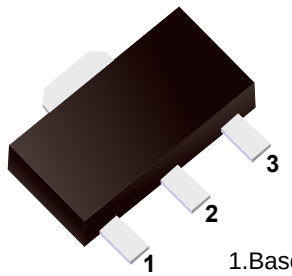
NPN Epitaxial Planar Silicon Transistors

FEATURE

- Power dissipation



1.Base
2.Collector
3.Emitter

SOT-89

Marking Code	
2SC1815SI	HF

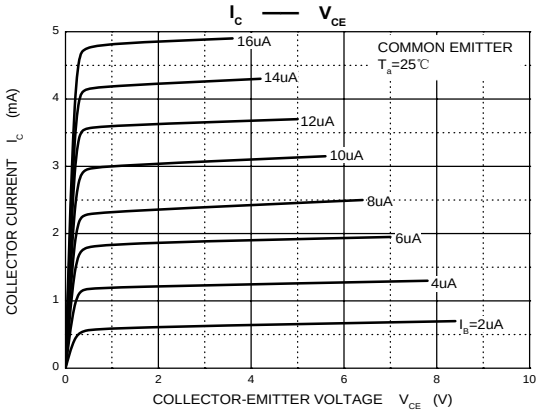
Maximum Ratings (TA=25℃ unless otherwise noted)

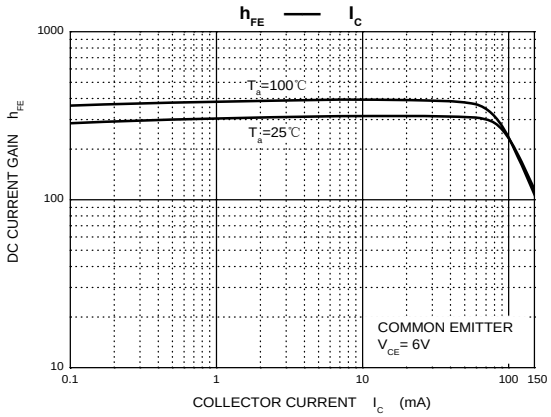
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	150	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55～+150	°C

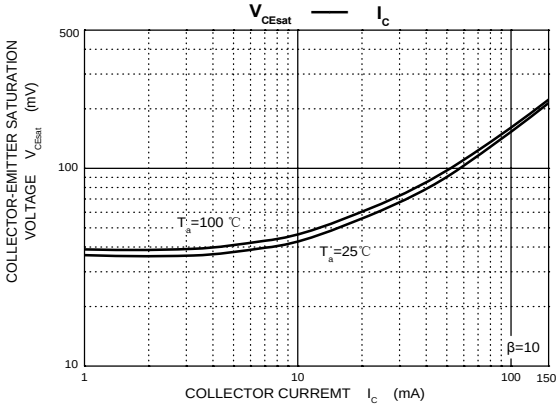
Lectrical Characteristics (Tamb=25℃ unless otherwise specified)

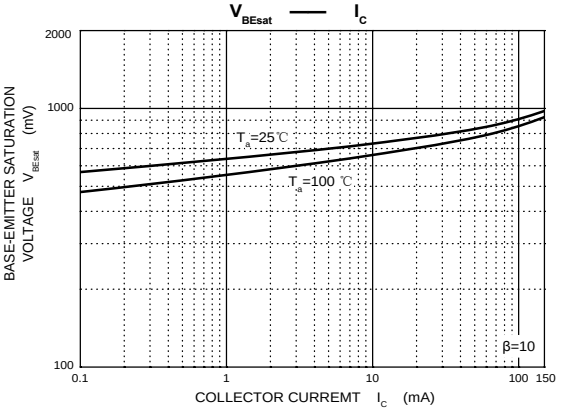
Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	I_C= 100μA, I_E=0	$V_{(BR)CBO}$	60			V
Collector-emitter breakdown voltage	I_C= 0.1mA, I_B=0	$V_{(BR)CEO}$	50			V
Collector cut-off current	V_{CB}=60V, I_E=0	I_{CBO}			0.1	μA
Collector cut-off current	V_{CE}=50V, I_B=0	I_{CEO}			0.1	μA
Emitter cut-off current	V_{EB}= 5V, I_C=0	I_{EBO}			0.1	μA
DC current gain	V_{CE}= 6V, I_C= 2mA	h_{FE}	200		400	
Collector-emitter saturation voltage	I_C=100mA, I_B= 10mA	$V_{CE(sat)}$			0.25	V
Base-emitter saturation voltage	I_C=100mA, I_B= 10mA	$V_{BE(sat)}$			1	V
Transition frequency	V_{CE}=10V, I_C= 1mA,f=30MHz	f_T	80			MHz

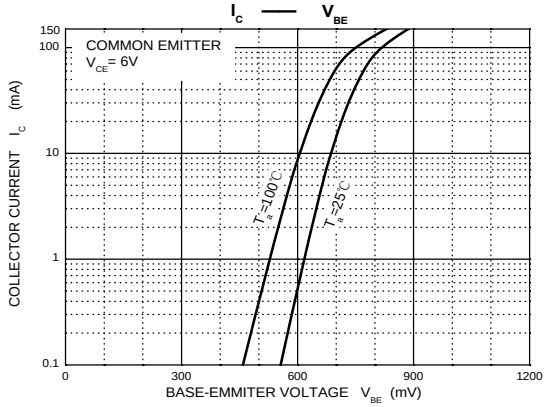
Typical Characteristics

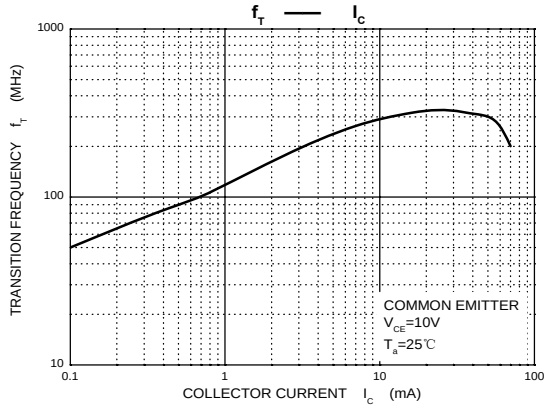


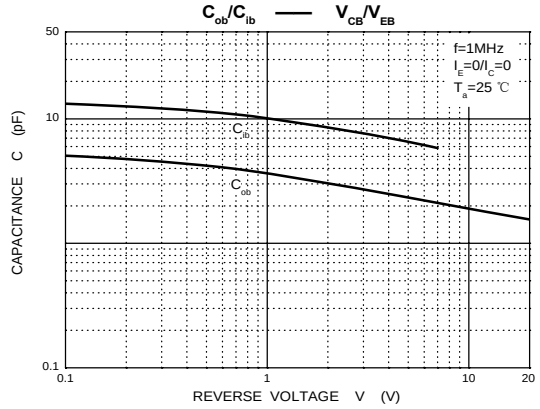


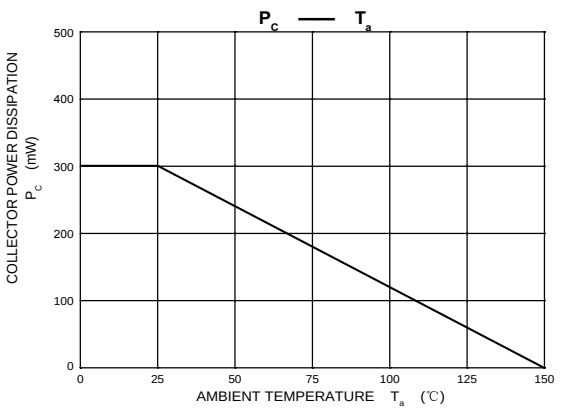










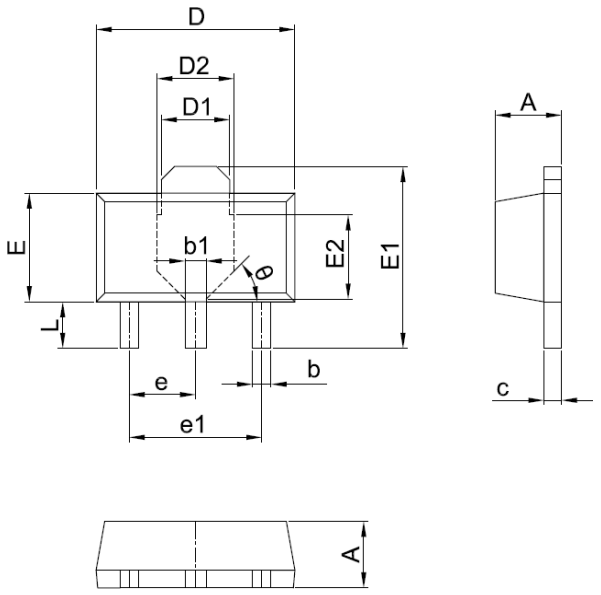


Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel,7"reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

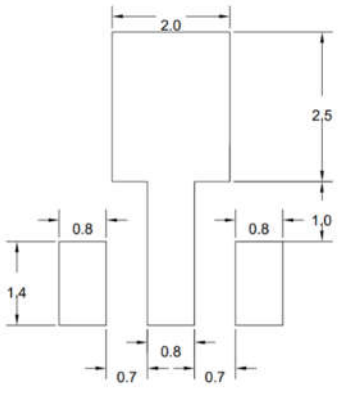
Package Dimensions

SOT-89



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

Disclaimer

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