

FEATURES

Collector Current: I_C=3A

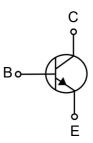
• Power Dissipation of 500mw



SOT89-3L

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
D882	SOT89-3L	D882	1000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

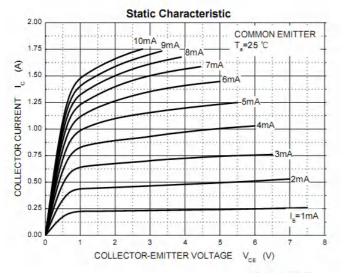
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _c	3	А
Collector Power Dissipation	P _c	500	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	250	°CM
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

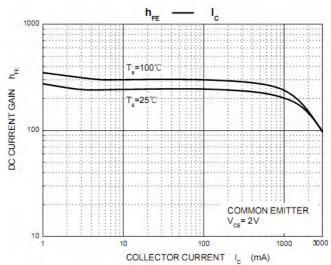


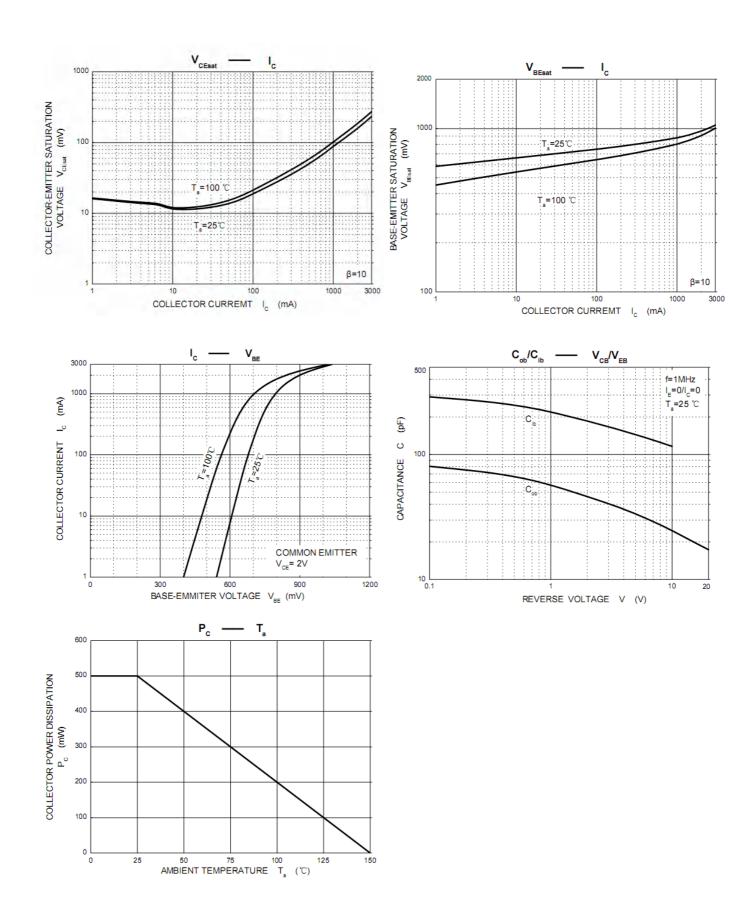
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_{C} = 10 \text{mA}, I_{B} = 0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E = 100μA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} = 40V, I _E =0			1	μA
Collector cut-off current	I _{CEO}	V _{CE} = 30V, I _B =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 6V, I _C =0			1	μA
DC current gain	h _{FE(1)}	V _{CE} =2V, I _C = 1A	160		320	
	h _{FE(2)}	V _{CE} =2V, I _C = 100mA	32			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 2A, I _B = 0.2 A			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I _C = 2A, I _B = 0.2 A			1.5	V
Transition frequency	f⊤	V _{CE} = 5V , Ic=0.1A f =10MHz	50			MHz

Typical Characteristics

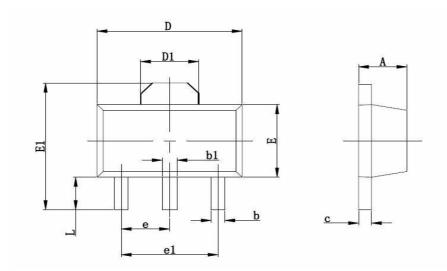








SOT89-3L Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches	
	Min	Max	Min	Max
Α	1.400	1.600	0.055	0.063
b	0.350	0.520	0.013	0.197
b1	0.400	0.580	0.016	0.023
C	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	2.350	2.550	0.091	0.102
E1	3.940	4.250	0.155	0.167
е	1.500 TYP		0.060TYP	
e1	3.000 TYP		0.118	8TYP
L	0.900	1.100	0.035	0.047

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