

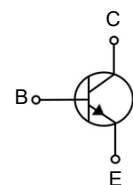
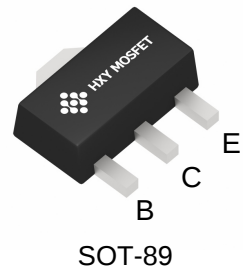


Features

- Collector Current: $I_C=3A$
- Power Dissipation of 500mW

Ordering Information

Product ID	Pack	Marking	Qty(PCS)
D882	SOT-89	D882	1000



Maximum Ratings ($T_a=25^\circ\text{C}$ 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	A
Collector Power Dissipation	P_C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

Classification Of h_{FE}

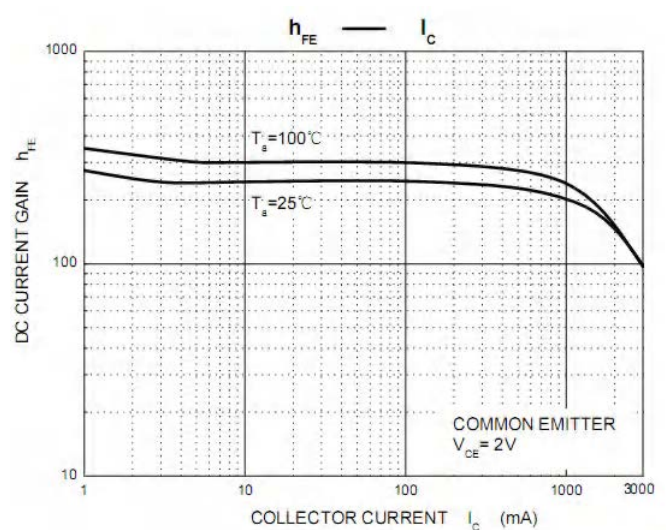
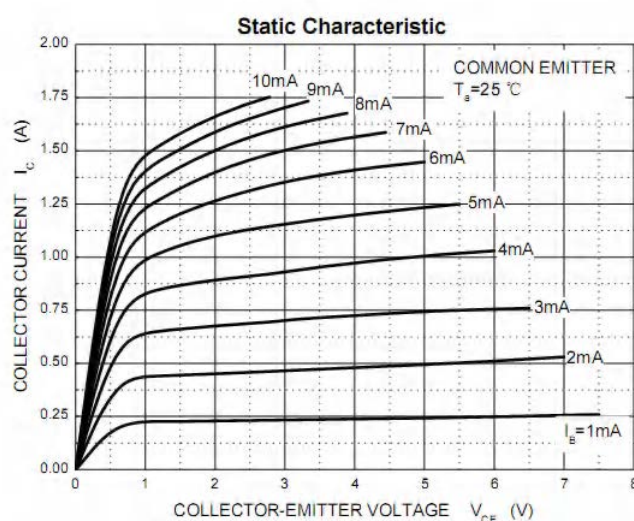
Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

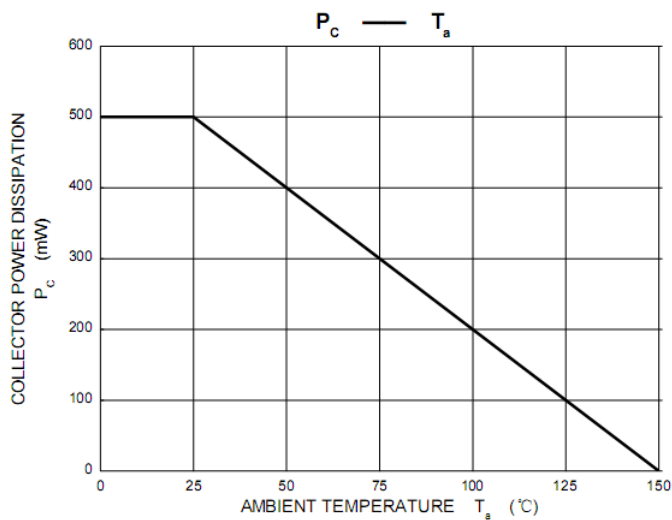
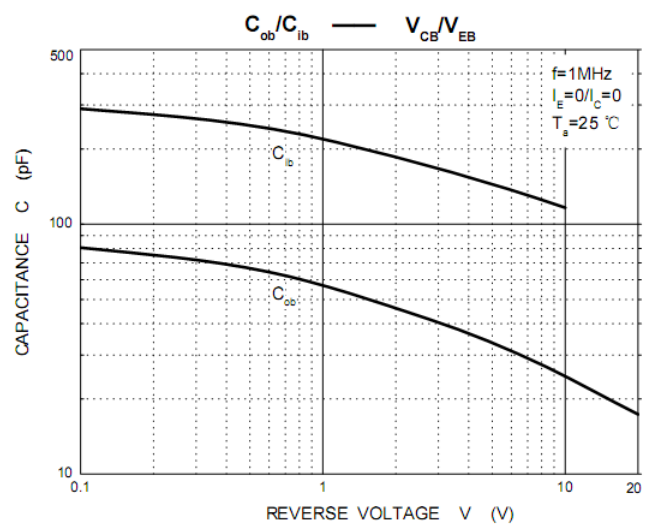
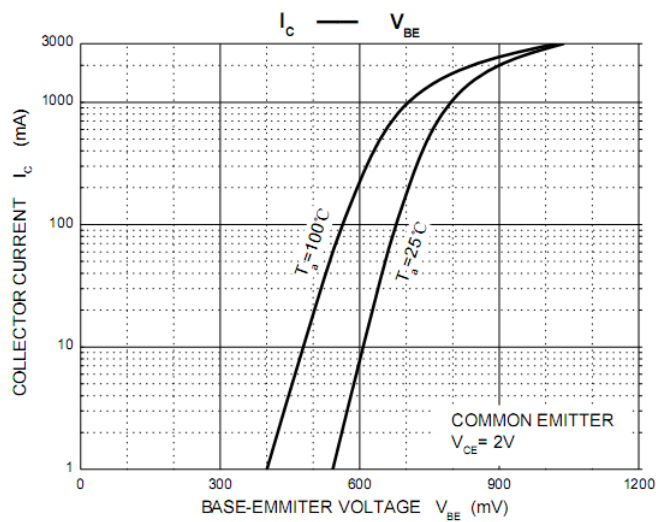
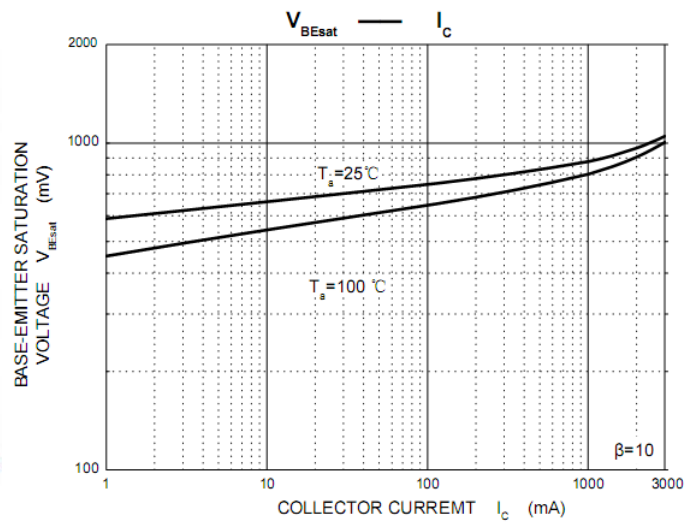
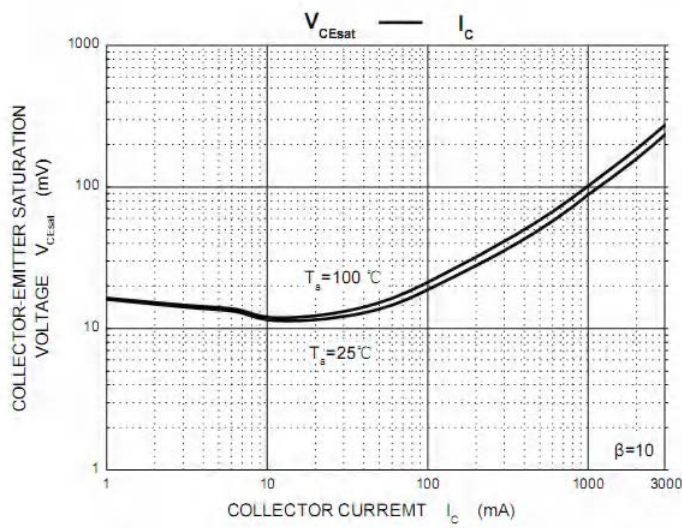


Electrical Characteristics($T_a=25$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10mA, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu A, I_C=0$	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_T	$V_{CE}= 5V ,$ $I_C=0.1A f =10MHz$	50			MHz

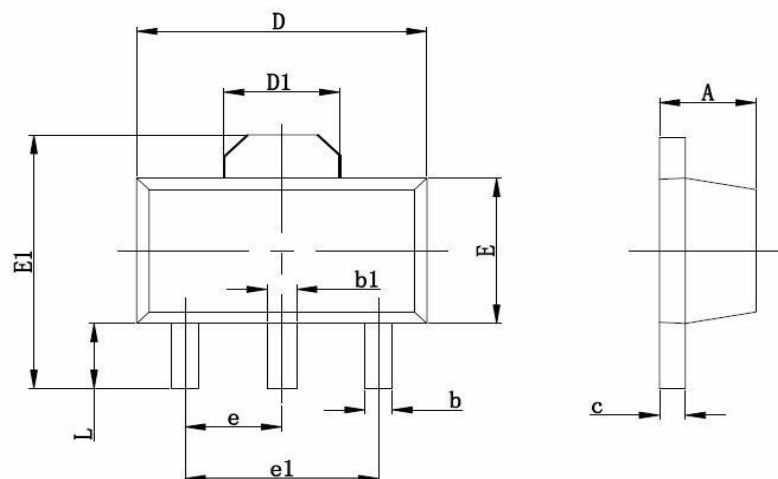
Typical Characteristics







SOT-89 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
e	1.500 TYP		0.060TYP	
e1	3.000 TYP		0.118TYP	
L	0.900	1.100	0.035	0.047



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