

Features

- Power dissipation



SOT-89-3L

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	40	V
V_{CE0}	Collector-Emitter Voltage	30	V
V_{EB0}	Emitter-Base Voltage	6	V
I_C	Collector Current	3	A
P_C	Collector Power Dissipation	0.5	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C}/\text{W}$
$R_{\theta JC}$	Thermal Resistance from Junction to Case	4.17	$^{\circ}\text{C}/\text{W}$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55 ~ 150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

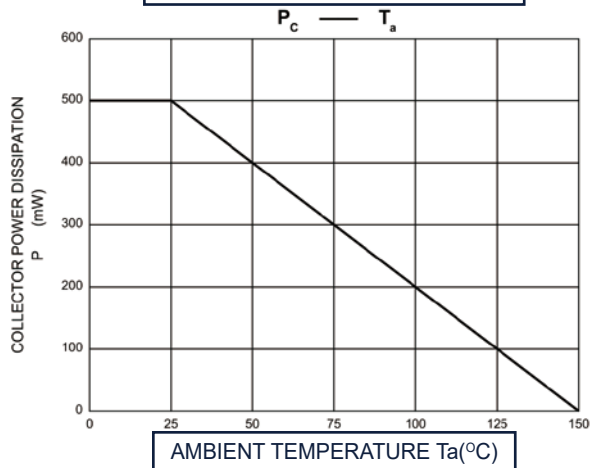
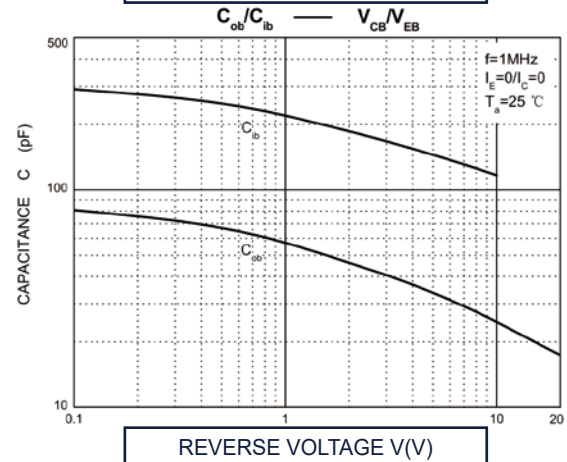
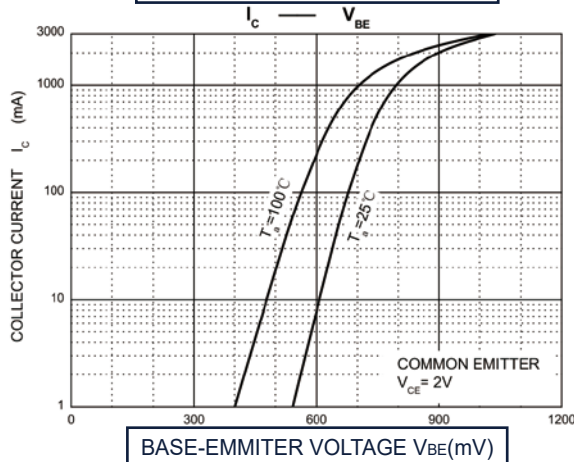
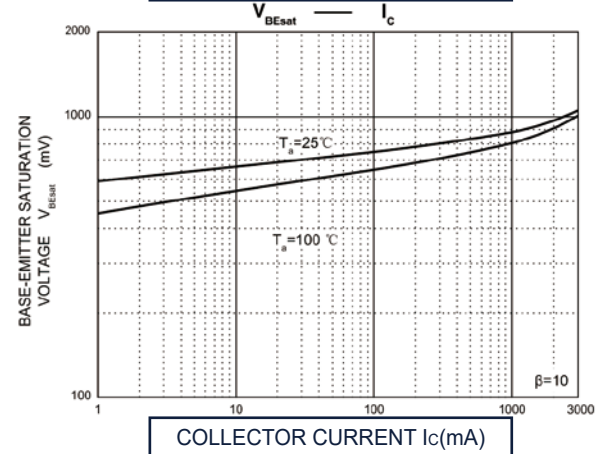
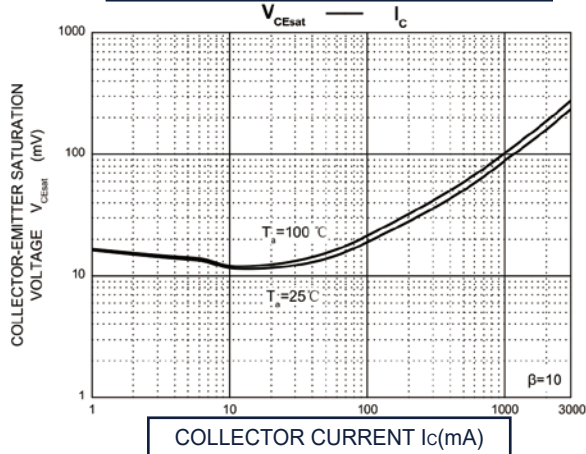
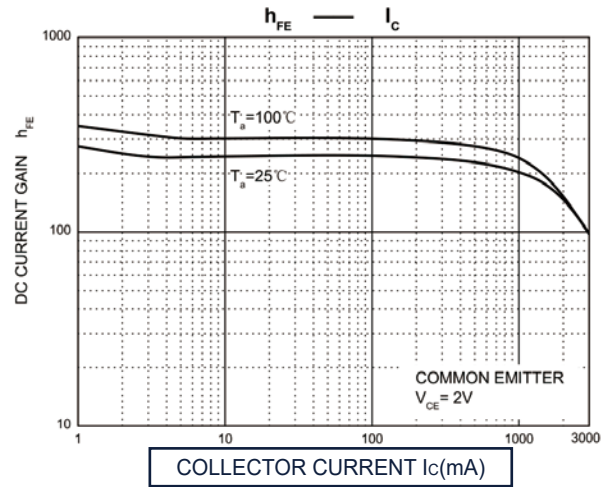
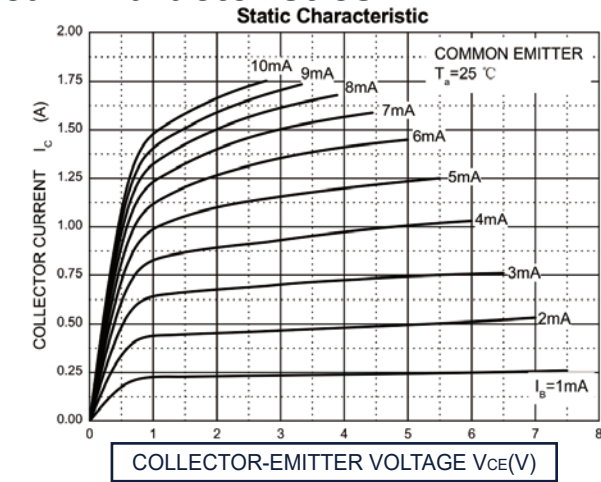
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu\text{A}, I_E=0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=10\text{mA}, I_B=0$	30			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu\text{A}, I_C=0$	6			V
I_{CBO}	Collector cut-off current	$V_{CB}=40\text{V}, I_E=0$			1	μA
I_{CEO}	Collector cut-off current	$V_{CE}=30\text{V}, I_B=0$			10	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=6\text{V}, I_C=0$			1	μA
$h_{FE(1)}$	DC current gain	$V_{CE}=2\text{V}, I_C=1\text{A}$	60		400	
$h_{FE(2)}$		$V_{CE}=2\text{V}, I_C=100\text{mA}$	32		400	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=2\text{A}, I_B=0.2\text{A}$			0.5	V
$V_{BE(sat)}$	Base-emitter voltage	$I_C=2\text{A}, I_B=0.2\text{A}$			1.5	V
f_T	Transition frequency	$V_{CE}=5\text{V}, I_C=0.1\text{A}, f=10\text{MHz}$	50			MHz

Ordering information

Product ID	Pack	Naming rule	Marking	$h_{FE(1)}$	Qty(PCS)
D882	SOT-89-3L	D882 ↓ 产品名称 product name	D882	160-320	1000
D882A					

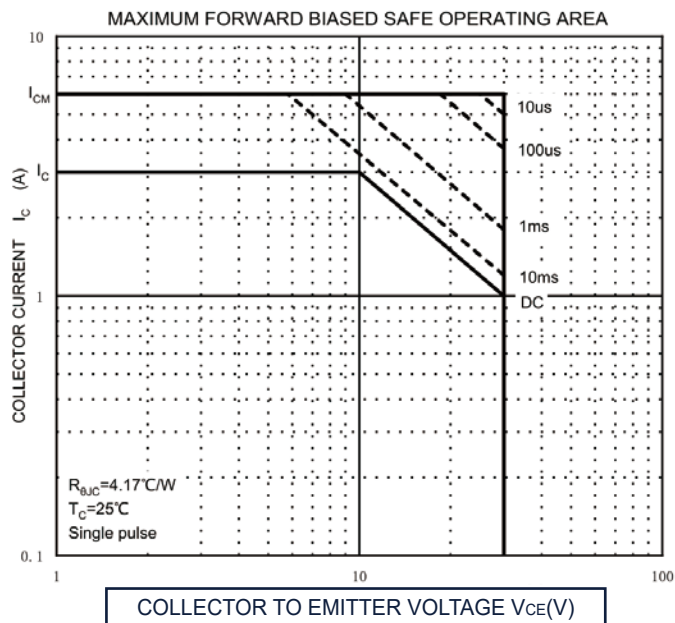
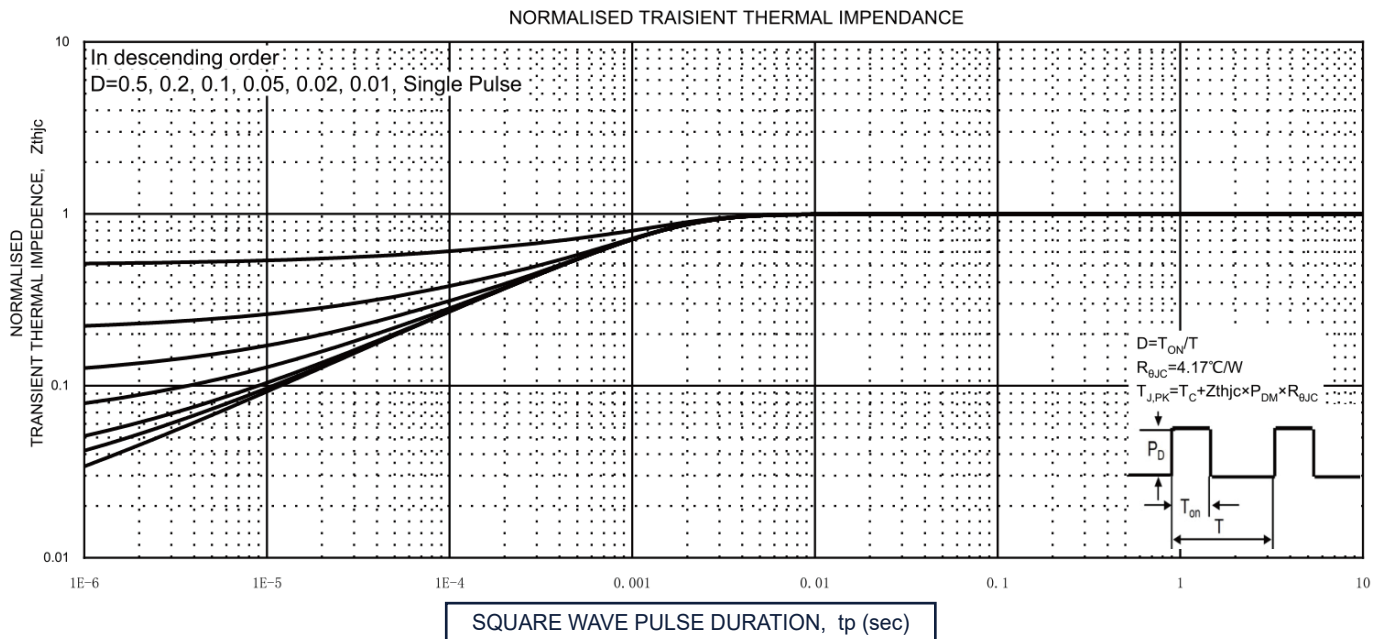


Typical Characteristics



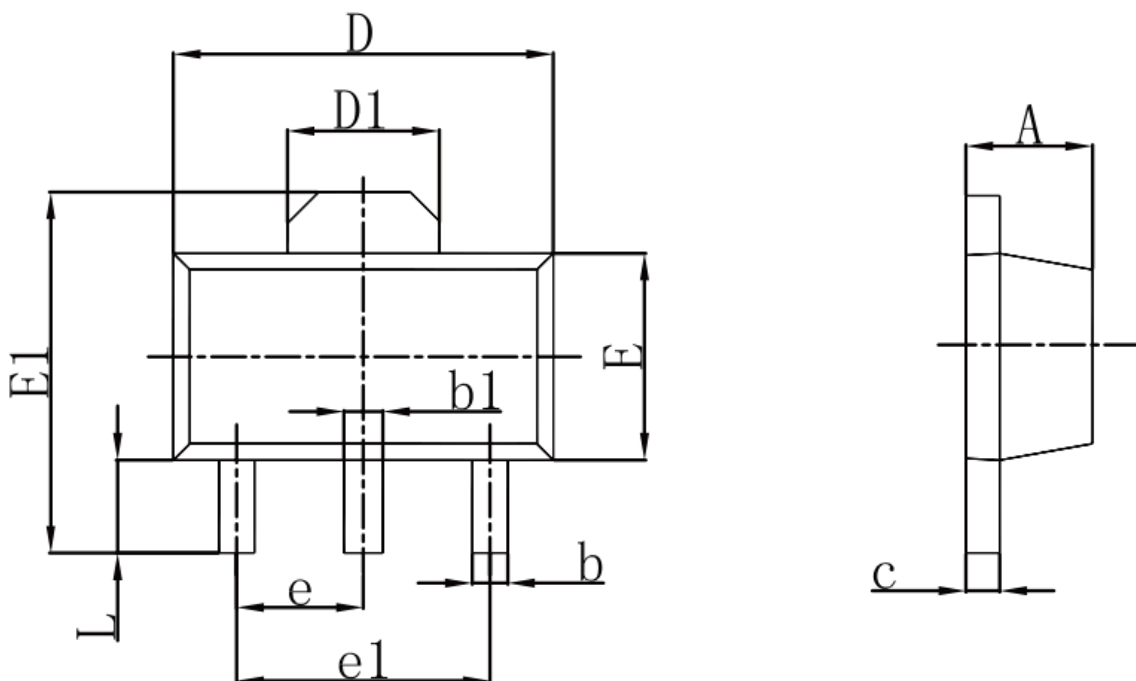


Typical Characteristics





SOT-89-3L Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
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	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047