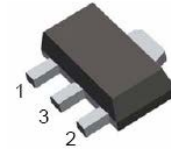
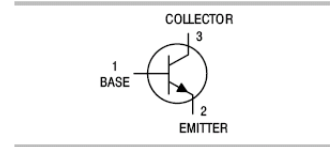




FEATURES

- Large current capacity.
- LOW $V_{CE(sat)}$.



SOT-89

ORDERING INFORMATION

Type No.	Marking	Package Code
D882H	D882H	SOT-89

MAXIMUM RATING @ $T_a=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	70	V
V_{CEO}	Collector-Emitter Voltage	70	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	3	A
P_C	Collector Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250	$^{\circ}\text{C}/\text{W}$
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}\text{C}$


ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

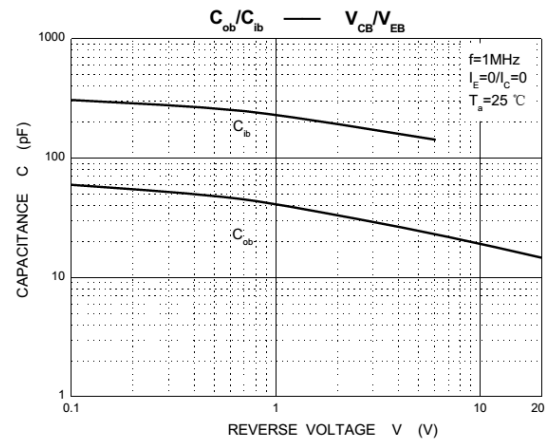
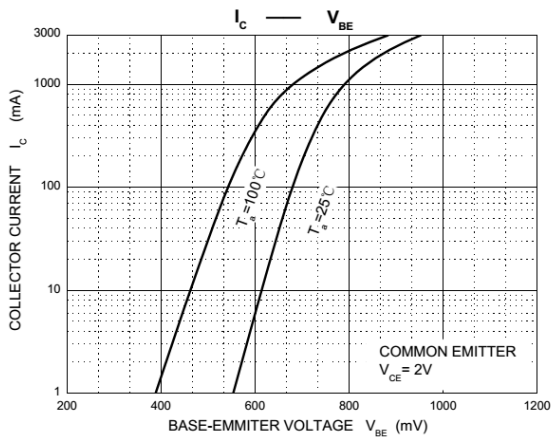
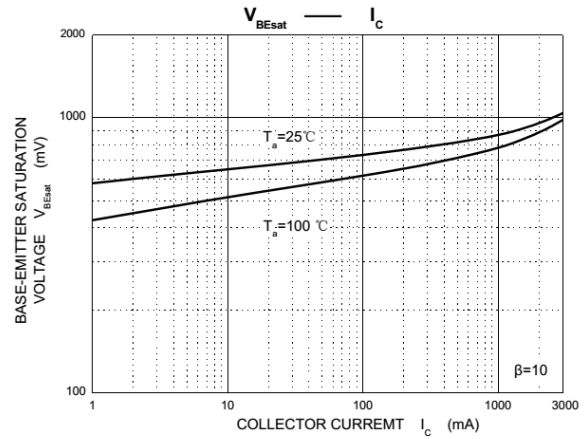
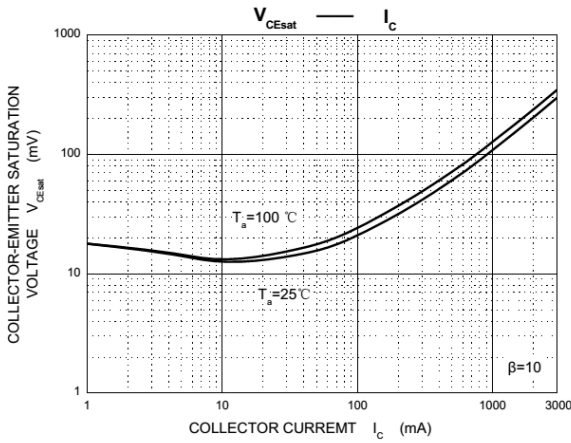
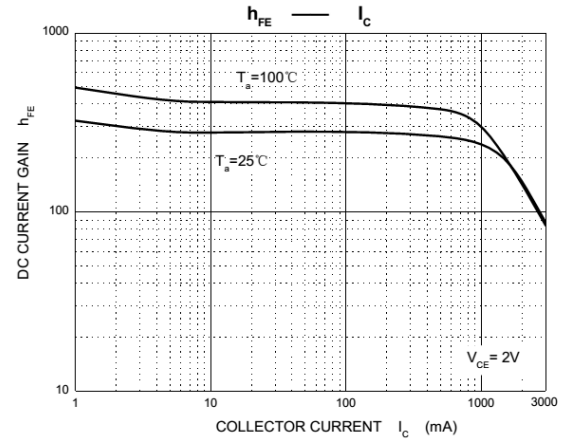
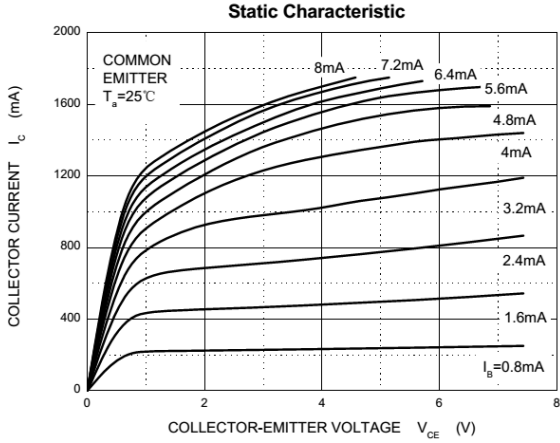
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	70			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	70			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=40V, I_E=0$			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}	$V_{CE}=2V, I_C=1A$	60		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=2A, I_B=0.2A$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=2A, I_B=0.2A$			1.5	V
Transition frequency	f_T	$V_{CE}=5V, I_C=0.1A$ $f=10MHz$	50			MHz

CLASSIFICATION OF h_{FE}

Rank	R	Q	P	E
Range	60-120	100-200	160-320	200-400



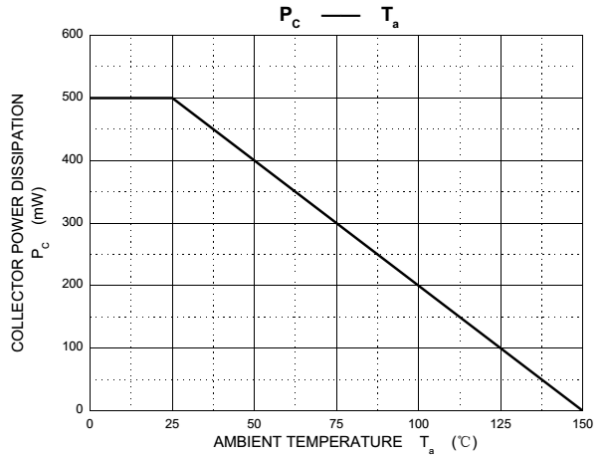
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified





D882H

SOT-89 Bipolar Transistor(NPN)

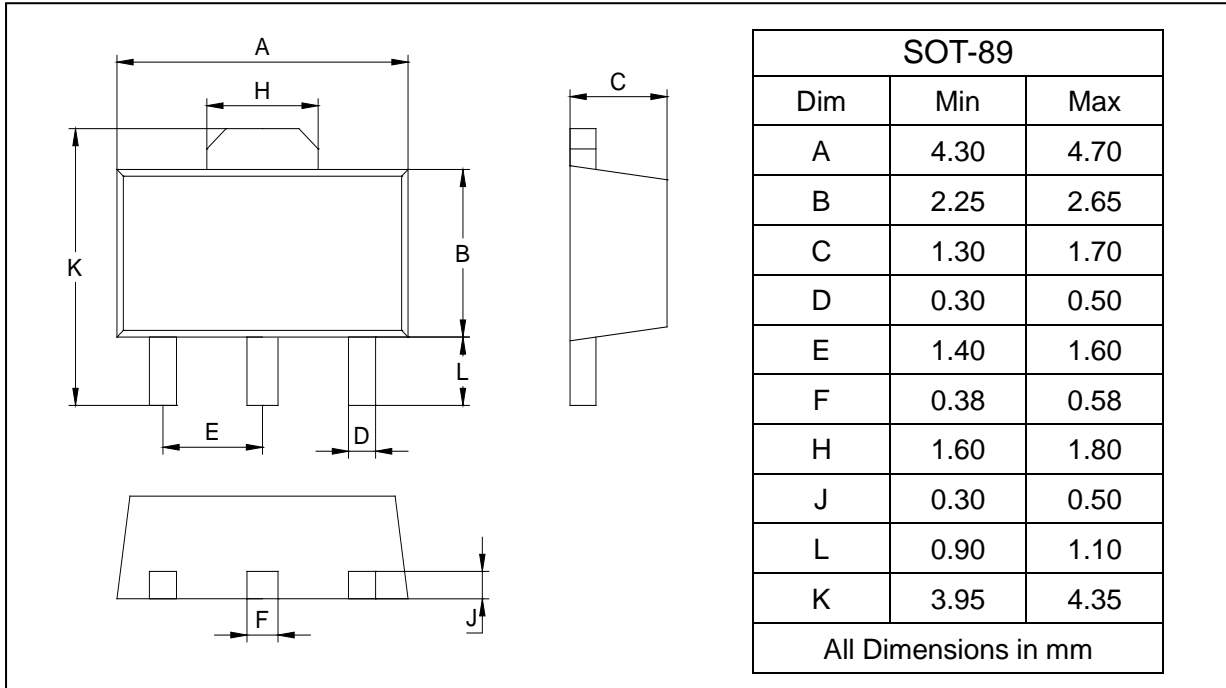




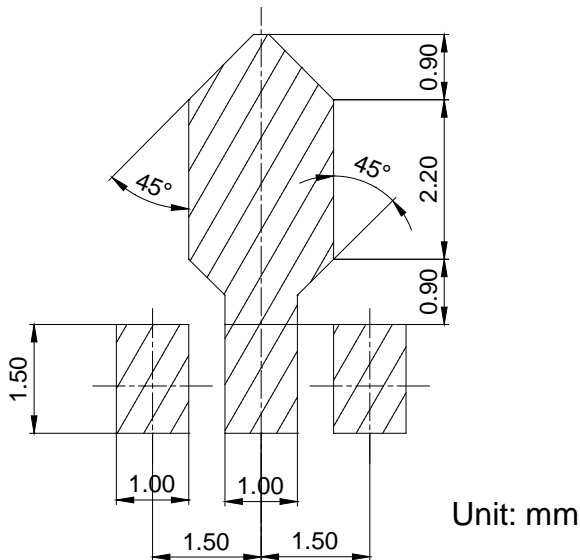
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT -89	1000pcs	7inch	10,000pcs	203×203×195	40,000pcs	438×438×220