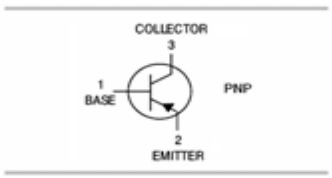
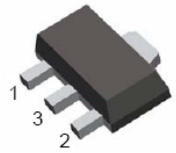
FEATURES

HF

- High breakdown voltage and high current.
  BV_{CEO}=-80V,I_C=-1A
- Good h_{FE}VLinearity.
- Low $V_{CE(sat)}$.
- Complements the 2SD1898.





SOT-89

APPLICATIONS

- Epitaxial planar type PNP silicon transistor

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current –DC -Pulse	-1 -2	A
P_c	Collector power Dissipation	0.5	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55 to +150	℃

***1:** When mountef on a 40*40*0.7mm ceramic board.

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-50μA I_E=0	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA I_B=0	-80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-50μA I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-60V I_E=0			-1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V,I_C=0			-1	μA
DC current gain	h_{FE}	V_{CE}=-3V I_C=-0.1A	120		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-500mA I_B=-50mA			-0.4	V
Output Capacitance	C_{obo}	V_{CB}=-10V f=1.0MHz I_E=0	-	20		pF

CLASSIFICATION H_{FE}

Rank	Q	R
Range	120-270	180-390

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

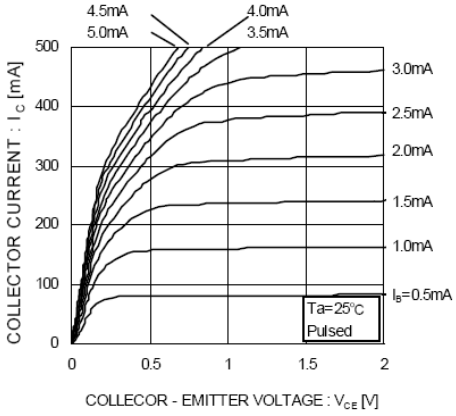


Fig.1 Ground Emitter Output Characteristics

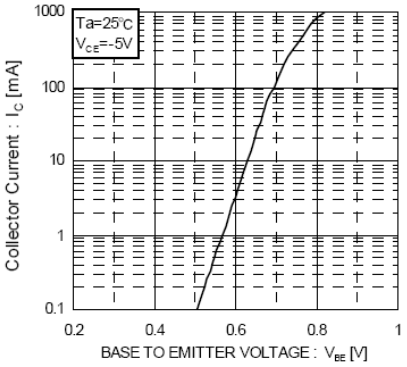


Fig.2 Grounded Emitter Propagation Characteristics

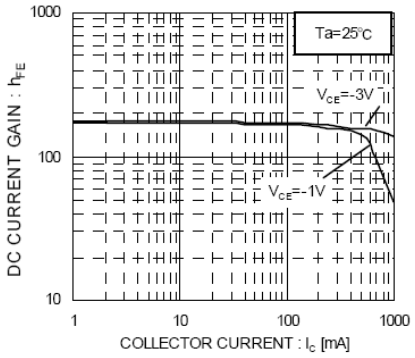


Fig.3 DC Current Gain vs Collector Current

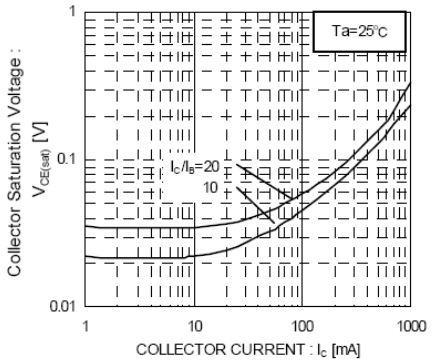


Fig.4 Collector-Emitter Saturation Voltage vs Collector Current

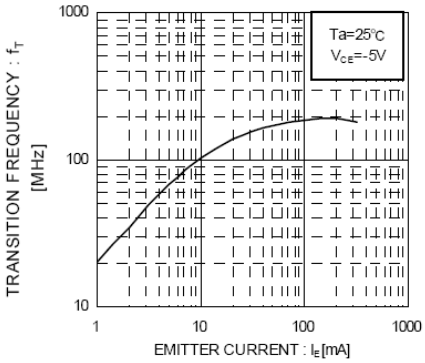


Fig.5 Transition Frewuency vs Emitter Current

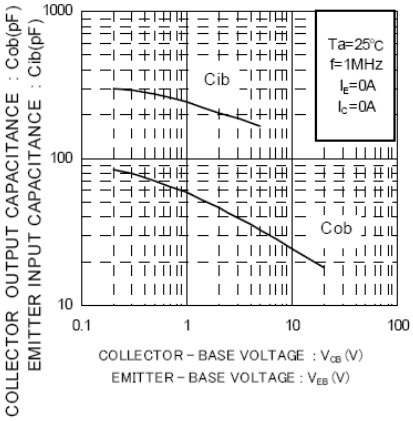
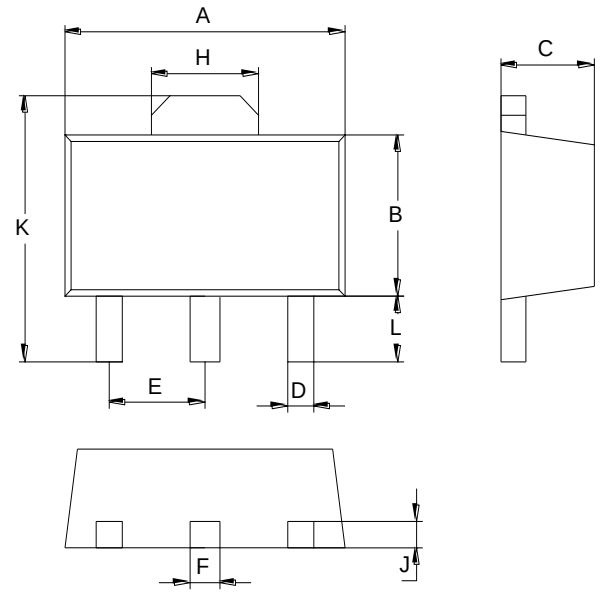


Fig.6 Emitter Input Capacitance vs. Emitter-Base Voltage
Collector Output Capacitance vs. Collector-Base

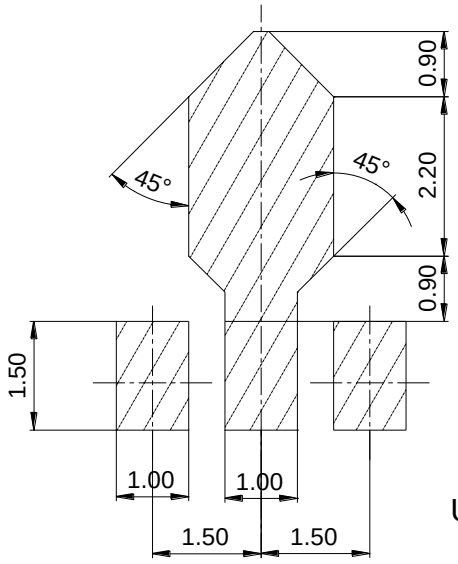
PACKAGE OUTLINE

Plastic surface mounted package SOT-89



SOT-89		
Dim	Min	Max
A	4.30	4.70
B	2.25	2.65
C	1.30	1.70
D	0.30	0.50
E	1.40	1.60
F	0.38	0.58
H	1.60	1.80
J	0.30	0.50
L	0.90	1.10
K	3.95	4.35
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
2SB1260	SOT-89	1000 pcs / Tape & Reel